IR/TEIS Issue List for BPS Consideration

ID	DESC
IR005 (BW)	Triage request for MBP's for 'Reversal' versus 'Cancel' of charges
IR009 (GB)	Add 'Taxing Entity' to bill ready.
TEIS01	Add standards for 'Customer ID'; to identify how a Customer is uniquely identified in a marketplace. Will be either LDC account number or ESIID depending on marketplace. Must be one or the other.
TEIS02	Add standards for 'Customer Name' as 'Customer Name as maintained by the Billing Party'
	We reference the Billing Services agreement. Where is that found?

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RXQ.3.4 MODELS

No models defined at this time.

RXQ.3.5 RELATED STANDARDS

A. INTERNET ELECTRONIC TRANSPORT (ET)

In NAESB business processes, the default mechanism for transporting electronic transactions and data from one party to the next is the Internet ET transport.

B. REQ/RGQ QUADRANT-SPECIFIC ELECTRONIC DELIVERY MECHANISM (RXQEDM)

The RXQEDM identifies a number of standards that are to be used in conjunction with the Internet ET, including standards for use of X12 and flat files.

C. ENTITY ID COMMON CODE

REQ and RGQ use the DUNS® or DUNS+4 number as the common company identifier for the HTTP Request and Response data dictionary 'to' and 'from' HTTP header elements. The DUNS® number is a 9-digit number assigned to companies by the Dun & Bradstreet Corporation (D&B). The DUNS+4® number is a 10- to 13-digit number, where characters 10 through 13 are arbitrarily assigned by the owner of the DUNS® number.

An entity will use one and only one DUNS® number. Entity common codes should be 'legal entities,' that is, Ultimate Location, Headquarters Location, and/or Single Location (in D&B terms). However, in the following situations, a Branch Location (in D&B terms) can also be an entity common code:

1. When the contracting party provides a DUNS® number at the Branch Location level.
2. To accommodate accounting for an entity that is identified at the Branch Location level.

Since D&B offers customers the option of carrying more than one DUNS® number per entity, please refer to NAESB's Web Page for directions on determining the one and only one DUNS® number constituting the NAESB Entity Common Code.

D. TRADING PARTNER AGREEMENT

The Trading Partner Agreement (TPA) specifies what functions each party should perform in electronic transactions. Billing & Payment may require execution of additional Trading Partner Agreements, including the Billing Services agreement outlined in Appendix ??.

RXQ.3.6 TECHNICAL IMPLEMENTATION

This section provides high-level standards and themes found in the technical details for the implementation of NAESB Billing and Payment transactions in support of deregulated energy marketplaces.

Customer ID

The 'Customer ID' data element is the unique identification of a Customer in a marketplace. In all NAESB market models, the Distribution Company assigns the Customer ID to a Customer.

Two models are supported for Customer ID:

- Account Number of the Distribution Company. In this marketplace model, the account number of the Distribution Company defines the unique Customer ID for a Customer.
- Service Delivery ID. In this marketplace model either a Distribution Company defines the unique Customer ID for a Customer using the ID for the service delivery location (e.g. ESI ID).

In cases where the Customer is not assigned to a Supplier, an additional data element is required to confirm that the Customer ID provided is correct. The ZIP Code for the Customer must be provided whenever the Supplier is not the Supplier of Record. This includes both Customer Information requests as well as initial enrollment requests.

Old Customer ID

NAESB marketplaces provide a vehicle in case a Distribution Company needs to change the Customer ID key for a Customer. For example, if the Distribution Company implements a new CIS system, they may need to assign new account numbers. If the Distribution Company uses this Account Number as the Customer ID, some cross-reference is needed between the old Customer ID and the new one. The Distribution Company should provide both the Old Customer ID and the current Customer ID in transactions for 90 days.

Non-Billing Party Account ID

NAESB marketplaces require Billing Parties and Registration Agents to store the Non-Billing Party Account ID if provided by the Non-Billing Party. For example, when a Supplier enrolls a Customer, they must include the Customer ID, but may also choose to include their Account ID from their internal systems. If provided, this Account ID should be echoed in all future transactions.

Commodity Service Type

NAESB transactions require that sending parties explicitly identify the commodity for each Customer. NAESB marketplaces allow only one type of commodity (i.e. electric or gas) in a transaction, except in Payment and Payment Notification transactions which can have multiple commodity service types.

Sender, Receiver, Distribution Company, Supplier, Registration Agent, Billing and Non-Billing Party

NAESB standards support transactions flowing in multiple directions, including:

- Usage can flow from Distribution Company to Registration Agent, Registration Agent to Supplier, and Distribution Company to Supplier
- Invoices and Payments can flow from Distribution Company to Supplier and Supplier to Distribution Company

RXQ.3.6 Technical Implementation

NAESB practices are often worded using defined terms Billing Party and Non-Billing Party. While the Data Dictionary retains these terms, the Technical specifications (X12) do not use these terms and rather require that parties define themselves and their trading partners in each transaction as both:

a) the type of entity (e.g. Distribution Company), and
b) whether the defined entity is the sender/submitter, or receiver.

Entity ID
Supplier Entity ID, Distribution Company Entity ID, Sender Entity ID, Receiver Entity ID, Billing Party Entity ID, Non-Billing Party Entity ID
NAESB marketplaces require trading partners to use Entity ID's in inner and outer transaction envelopes, including name segments such as the X12 N1 and NM1.

See 'Entity Common Code ID' in 'Related Standards' for more information.

Usage ID Cross Reference
The Usage ID data element serves as a cross reference between the Usage and the associated Invoice and Payment

In X12, these data elements are used for the cross-reference:

- 867 – BPT02 – This document establishes the Usage ID cross reference number.
- 810 – BIG05 – This document must have the cross reference number from the respective 867.
- 820 – REF6O (letter O) – In Assumed Receivables, the 820 to the non-billing party must also include the Usage ID cross-reference number from the 867/810 documents.

Service Period, Start Date, End Date
NAESB energy marketplaces use the Service Period to define discrete units. Usage is created and if necessary cancelled by Service Period dates, which include a Start Date and an End Date. Invoices are created, and if necessary cancelled, using the Service Period originally defined in the Usage transaction.

Restatements of both Usage and Invoice transactions are done using a new Service Period, which creates a new discrete unit.

Service Periods should be overlap from month to month. For example, last month's Service Period End Date should equal this month's Service Period Start Date.

Example:

	Service Period Start Date	Service Period End Date
First Report	DTM~150~20050501	DTM~151~20050601
Second Report	DTM~150~20050601	DTM~151~20050701

Meter exchanges
Usage information is divided into two separate reports when a meter is exchanged:

- The first report starts with the Service Period Start Date and ends with the Meter Exchange Date
- The second report starts with the Meter Exchange Date and ends with the Service Period End Date

RXQ.3.6 Technical Implementation

Example:

	Service Period Start Date	Meter Exchange Date	Service Period End Date
First Report	DTM~150~20010101	DTM~514~20010114	
Second Report		DTM~514~20010114	DTM~151~20010128

RXQ.3.6 Technical Implementation

Party Sending Bill & Calculating Charges

Technical specifications often require data elements that define billing model for the defined Customer. The table below summarizes the use of the Billing Party and Party Calculating Charges data elements, using X12 as an example.

Billing Model	Bills Customer	Calculates LDC Portion	Calculates ESP Portion	Billing Party REF~BLT	Calc. Party REF~PC
Distribution Company Rate Ready Consolidated	Distribution Company	Distribution Company	Distribution Company	**LDC**	**LDC**
Distribution Company Bill Ready Consolidated	Distribution Company	Distribution Company	Supplier	**LDC**	**DUAL**
Supplier Bill Ready, includes SRBO	Supplier	Distribution Company	Supplier	**ESP**	**DUAL**
Dual	Both	Distribution Company	Supplier	**DUAL**	**DUAL**

Meter Type

The Meter Type data element uses a five-character field to identify what the measure is reporting, and in what interval. The first two characters are the type of consumption/demand, the last three characters are the metering interval reported by the metering agent. Valid values can be a combination of the following values:

Type of Consumption		Metering Interval Reported for Billing Purposes	
K1	Kilowatt Demand (kW)	[nnn]	Number of minutes from 001 to 999
K2	Kilovolt Amperes Reactive Demand (kVAR)	DAY	Daily
K3	Kilovolt Amperes Reactive Hour (kVARH)	MON	Monthly
K4	Kilovolt Amperes (kVA)		
KH	Kilowatt Hour (kWh)		

Examples:

KHMON kiloWatt hours Per Month

K1015 kiloWatt demand per 15 minute interval

RXQ.3.6 Technical Implementation

Frequently Answered Questions

Can transaction numbers have punctuation?

NAESB allows dashes ('-') and periods ('.') in transaction reference number data elements. No other punctuation is allowed. Punctuation is not allowed in the Customer ID or account number data elements.

Which invoice data element is used in the Payment X12:RMR02 data element?

NAESB standards allow for either the Invoice ID (X12:BIG02) or the Customer ID (X12:REF~12) in the RMR02 data element.

Does NAESB use BIG07 =FB and PR instead of FE and ME in the Invoice header?

NAESB has adopted a compromise resolution for BIG07, using Mid-Atlantic market standard 'ME' for normal monthly invoices, and ERCOT-standard 'FB' for final bill invoices.

Why do standards use "telecommunication industry account" for the X12 REF~11?

In many cases NAESB has adopted codes used by other industries. Where 'telecommunications' is seen indicates that NAESB was unable to delete or change those codes in the transaction guideline generation tool (EDISIM).

Should the Billing Party (X12:REF~BLT) data element be marked as business conditional since some jurisdictions require it?

No, NAESB requires it in the Usage.

When is the X12 Invoice IT1 RATE loop used?

In Single Retail Bill Option only.

Are signed values required in the X12 810 Invoice SAC05, SAC08 and SAC10, and the X12 820 Payment RMR08?

Yes.

Are Tax data elements required?

Yes.

In Payments and regarding credits to Customers (ie debits to Suppliers), (a) does NAESB require that payors pay the entire 820 when payment is 0 or negative, and (b) how long should payors hold any debit or multiple debits that cannot be satisfied by the accumulated daily credits?

(a) No.

(b) Debits that do not exceed credits should be held no longer than 30 days. At that time, the Payor should take action to collect credits from the Payee via non-automated / non-EDI processes.

RXQ.3.6 Technical Implementation

When is the Payment 820 cross-reference (REF~6O) to Usage ID required?

Only in the 'Assumed Receivables' model. There is no reliable way to connect payments to invoices when there are potential many-to-many relationships (e.g. many invoices paid by one payment, or many payments for one invoice).

Is there a movement towards using the commodity (REF~QY) data element?

Yes, because of support for both electric and natural gas.

RXQ.3.6.1: BILLING USAGE

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.2.3, RXQ.3.3.2.4, RXQ.3.3.1.5, RXQ.3.3.4.9, RXQ.3.3.4.10, RXQ.3.3.5.4, RXQ.3.3.5.5, RXQ.3.3.6.2

The Billing Usage transaction is the inter-company communication that itemizes energy consumption or demand for a given period of time, used to determine invoice charges. The transaction reflects usage from actual meter reads, estimated meter reads, interval meter reads, unmetered usage, and usage used by the meter reader for billing. Billing Usage is not used to communicate historical usage.

The Billing Usage transaction supports all market billing models (Dual billing, consolidated bill-ready and rate ready, and single retailer billing option).

The types of usage transactions supported by Billing Usage in retail energy markets are:

- Monthly usage
- Interval usage
- Summarized interval usage
- Cancel usage (all of the above can be cancelled)

Each Billing Usage transaction can include any of the following categories of Usage:

- Summary (X12=PTD~SU)
- Non-Interval Detail (X12=PTD~PL) – Monthly usage, including time of use, additive/subtractive, missing/abundance consumption,
- Unmetered Services Summary (X12=PTD~BC)
- Unmetered Services Detail (X12=PTD~BD)
- Net Interval Usage Summary (X12=PTD~IA)
- Interval Usage Summary Across Meters (X12=PTD~PP)
- Interval Summary (X12=PTD~BO)
- Interval Detail (X12=PTD~PM)

The **Sender** of the transaction is either the meter reading entity (MRE), the distribution company (LDC), or a central registration agent (e.g. ERCOT). The **Receiver** of the usage could be a supplier/retailer, a distribution company or a central registration agent (e.g. ERCOT).

The usage is identified by the **Usage ID (UUID**; formerly 'Reference Number ID'). This Usage ID is assigned by the originator of the usage UET – either the MRE or the LDC. If usage is cancelled, the **Original Usage ID indicates the specific** Usage ID to be cancelled.

The Usage ID is echoed in any invoice or payment UET's that use this usage, establishing a thread to tie these transactions together for involved parties.

Each original Billing Usage header contains:

- Final Indicator
- Sender Common Code ID
- Sender Name
- Customer Account ID
- Customer Name
- Customer Name Overflow

RXQ.3.6.1 Usage

- Non-Billing Party Invoice Due Date
- Receiver ID
- Receiver Name
- Receiver Account ID
- Original Usage ID
- Party Calculating Bill
- Party Sending Bill
- Purpose = 'Original'
- Usage ID
- Report Type Code
- Service Type
- Transaction Date

Each original Billing Usage can contain multiple detail records. Each detail record contains:
- Ending/Single Reading
- Quantity
- Summary Level
- Unit of Measure
- Interval End Date Time
- Measurement Reference ID
- Service Period End Date
- Service Period Start Date
- Therm Factor
- Transformer Loss Multiplier
- Usage Detail Category
- Usage Code

If providing information at a meter level, each original Billing Usage detail contains, if available:
- Beginning Reading
- Meter Multiplier
- Meter Consumption Type
- Meter Interval Type
- Meter Number
- Meter Role
- Number of Dials / Digits
- Power Factor
- Pressure Correction Factor
- Primary Metering Indicator

In addition to the above detail elements, each original Billing Usage interval usage transaction has a interval detail record for each interval, as defined by **Meter Consumption Type** and **Meter Report Period**, including:
- Interval Date
- Interval Time
- Interval Quantity
- Interval Unit of Measure

Each cancel Billing Usage includes **Purpose Code = 'Cancel'**, the Usage ID trace number to

RXQ.3.6.1 Usage

the original transaction, and the same data found in the original Billing Usage transaction.

Reissuing cancelled usage is treated as original usage.

This section describes the purpose of each Category of usage reported, which depends on the characteristics of the Customer account.

Monthly Billed Summary Information **(X12:PTD=BB):** This section is always required for every type of account, and reports what was billed by the party reading the meters, usually the Distribution Company.

Non-Interval Metered Services Information (X12: PTD01 = SU, PL) – These sections are used to report usage for metered data, at both a detail level by meter by unit of measure, and at a summary level for all meters.

Non-Interval Metered Services Summary (X12:PTD01=SU): This section sums to the account level by kWh and KVARH. The Summary report is not provided for kW or KVAR. Data is obtained from the metering system. If you have two meters and each meter measures kW and kWh, you will send one Summary report, with kWh readings from Meter 1 and Meter 2 summed.

Non-Interval Metered Services Detail (X12:PTD01=PL): There will be one Non-interval detail report for:

- each meter for each unit of measure
- missing or abundance of consumption
- meter exchange before: includes the Service Period Start Date and the Meter Exchange Date
- meter exchange after: includes the Meter Exchange Date and the Service Period End Date.

For Additive/Subtractive Metering Only: This report is also used for Additive/Subtractive Metering when the Master Meter is on one Customer ID and the additive and/or subtractive meters are on Customer IDs that are different than the master Meter. All additive usage is summed. All subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Additive/Subtractive usage must be provided in the PTD06 by using code "AI" or code "AO".

For Missing or Abundance of Non-Interval Consumption: This report is also used to report missing or abundance of consumption when the consumption (added or subtracted) provided has not been registered by the meter, for example: tampering, fast, slow and/or flat/bypass. The conditions exist only for non-interval meters on the same Customer ID. The meter number must be provided, as well as the type of missing or abundance consumption. The receiver must add or subtract this consumption.

Interval Metered Services Information (X12: PTD01 = BO, PM) – These sections are used to report usage for interval metered data, at both a detail level by meter by unit of measure by interval time, and at a summary level for all meters.

RXQ.3.6.1 Usage

Interval Metered Services Summary (X12: PTD01=BO): This section sums to the account level by kWh and KVARH. The Summary report is not provided for kW or KVAR. Data is obtained from the metering system. If you have two meters and each meter measures kW and kWh, you will send one Summary report, with kWh readings from Meter 1 and Meter 2 summed.

Metered Services Detail (X12=PTD01=PL): This section has reports for one or more meters for each unit of measure. Data is obtained from the metering system. In the case of one meter reporting one unit of measure (kWh), the PTD01=PM will be the same as the PTD01=SU and both must be provided.

Unmetered Services Information (X12=PTD01 = BC) – This report is usage for any unmetered portion of an account. This information must be provided at the summary level (X12=PTD01=BC). Total Consumption for all unmetered services at the account level. Even though some of the consumption may be estimated, the consumption is reported as actual for unmetered services. The summary is required at this time for Unmetered Services.

Cancellations

- Usage Cancellations are by metering period, i.e. same as the original Usage. Restated original Usage transactions may be for multiple periods.
- The “from” and “to” dates on the Cancel must match exactly with the original usage.
- On a cancellation, the signs are not reversed (don't change positive usage to negative usage). Quantities will not be negative on Cancels. Cancels should be interpreted as negative consumption.
- The consumption sent in the cancel must match the consumption sent in the original transaction.
- Cancels must be sent at the same level of detail as the original usage.
- There is a cross reference between billing related documents.

Additive & Subtractive Metering

Type of Metering	Description
Additive Metering	Additive Usage for Additive meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable additive meters.
Subtractive Metering	Subtractive Usage for Subtract meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable subtractive meters.
Added Flat /Bypass	Missing or Abundance of Consumption. For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption for the meter.
Added Slow- Missing or Abundance of Consumption	For adjusting consumption when the added consumption provided has not been registered by the meter. The conditions exist only for non-interval meters on the same Customer ID. The receiver must add this consumption for the meter.
Subtracted Fast- Missing or Abundance of Consumption	For adjusting consumption when the subtracted consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must subtract this consumption for the meter.
Added Tampering- Missing or Abundance of Consumption	For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption for the meter.

Transformer Loss Factor. Where the delivery point is prior to the transformation such that the Customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater that unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness.

RXQ.3.6.1 Usage

Where the delivery point is after the transformation such that the Customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less that unity. E.g. 0.995, to reflect a negative adjustment to the meter reads.

Interval Time. Interval reads require the time of the read. Most meter reading software applications use the ending period time to record a read: e.g. 0015 (12:15 AM) is the first 15-minute read of the day; 2400 (12:00 AM) is the last.

X12 does not allow 2400 as a valid time. Parties are required to submit 2359 (11:59 PM) as the time for the last read of the day. For example, midnight between October 15th and October 16th is reflected as 2359 of October 15th.

RXQ.3.6.1 Usage

Sample Paper Transaction

Usage Header	
Usage Date:	20040413
Usage ID:	04132004TR4877
Original Usage ID:	
Purpose:	Original
Final Indicator:	No
Sender Name:	Distribute-It Inc.
Sender Common Code ID:	123456789
Receiver Name:	Sell-It Inc.
Receiver Entity ID:	546897321
Total KWH Billed	4,000
Total KW Billed	20
Total KVA Billed	18

Category	Meter #	Service Period Start Date	Service Period End Date	Interval End Time	Actual/ Estimated	Unit of Measure	Quantity
IU	12345678	20040410	20040509	0015	Actual	KW	200
IU	12345678	20040410	20040509	0030	Estimated	KW	

Category	Meter #	Service Period Start Date	Service Period End Date	Actual/ Estimated	Unit of Measure	Quantity
MU	23456789	20040410	20040509	Actual	KWH	200
MU	23456789	20040410	20040509	Estimated	KWH	

RXQ.3.6.1 Usage

Data Dictionary

[??placeholder; delete this after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancellation]
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Usage Date	Date this transaction was created by the sender's application system.	M		
Report Type Code	Defines if usage is reported at interval, non-interval or mixed	M		[Interval,Non-Interval,Mixed]
Final Indicator	Indicates whether this is a final usage	M		[Yes, No]
Original Usage ID	The UUID from the original transaction provides a cross-reference; used only to cancel the original	C	[M] when Purpose='Reverse' or 'Cancel'	
Non-Billing Party Invoice Due Date	The last date invoices will be accepted by the Billing Party for inclusion on the bill	RBC	CBBR only	
Receiver Entity ID	Receiver's Entity Common Code ID (e.g. DUNS Number)	M		
Receiver Entity Name	Receiver Name	M		
Sender Entity ID	Common Code ID (DUNS Number or DUNS+4 Number or other mutually-agreed upon number) of the party that initiates the transaction.	M		
Sender Name	Name of the trading partner that initiates the transaction.	M		
Service Period Start Date	Previous Meter Reading Date	M		
Service Period End Date	Current Meter Reading Date	M		
Customer Name	Customer Name	M		
Receiver Customer Account ID	Receiver Customer Account ID assigned by the Receiver. Not the Customer ID.	RBC	BR: sent if previously received by Non-Billing Party	
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Party Sending Bill	Identifies party sending the bill to the Customer	RBC		[Distribution Company, DUAL, Supplier]
Party Calculating Bill	Identifies party calculating the Non-Billing Party Charges	RBC		[Distribution Company, DUAL, Supplier]
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Power Region	Reliability Council	RBC		
Usage Detail Category	Code that defines what type of detailed usage is reported	M		[Non-Interval Metered, Interval Metered, Summary Interval, Unmetered, Billed]
Billed Demand	Demand Customer was actually billed. Billed (derived) Demand is based on contract or rate minimum and may be different than measured demand.	M		
Billed Consumption	Consumption Customer was billed	M		
Measured Demand	Measured Demand	M		
Interval Meter Read End Time	Timestamp for end of interval read	C	[M] when ReportType='INTERVAL'	
Interval Meter Exchange Date	Date meter was exchanged	M		
Interval Meter Read Transformer Loss	Transformer Loss Multiplier. When a Customer owns a	C	[M] when this measure is available	

RXQ.3.6.1 Usage

Data Elem. Name	Description	Use	Condition	Comments [Options]
Multiplier	transformer and the transformer loss is not measured by the meter.			
Interval Meter Read Multiplier	Represents the number of units that are reflected by one dial or digit increment. Can be multiple multipliers per meter	C	[M] when ReportType='METER'	
Interval Meter Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	
Interval Meter Read Estimated Actual Flag	Flag identifiying if beginning and ending meter reads are estimated or actual		[M] when ReportType ='METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]
Interval Meter Read Unit of Measure	Unit of measure for read	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Interval Meter Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when ReportType ='METER'	
Interval Meter Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when ReportType ='METER'	
Interval Meter Quantity Usage Code	Code distinguishes between estimated usage and actual usage	M		[Actual, Estimated]
Interval Meter Quantity	Usage	M		
Interval Meter Quantity Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Interval Meter Channel Number	Interval Meter Channel Number	M		
Interval Meter Number of Dials / Digits	Number of meter dials or digits on the meter	C	[M] when Report Type ='METER'	X12 uses dials to left of decimal, digits to right of decimal
Interval Meter Role	Code that defines the effect of consumption on summarized total.	C	[M] when Report Type ='METER'	[Subtractive; Additive; Ignore]
Interval Meter ID	Serial number identifier for a specific interval meter	RBC		
Interval Meter Type	Meter Type			[See Meter Type Definition]
Interval Meter Rate Class	Rate Class	C		
Interval Meter Rate Subclass	Rate Subclass	C		
Interval Meter Summary Consumption	Total consumption on interval metered services			
Summary Interval Read End Time	Timestamp for end of interval read	C	[M] when ReportType='INTERVAL'	
Summary Interval Exchange Date	Date meter was exchanged	M		
Summary Interval Read Transformer Loss Multiplier	Transformer Loss Multiplier. When a Customer owns a transformer and the transformer loss is not measured by the meter.	C	[M] when this measure is available	
Summary Interval Read Multiplier	Represents the number of units that are reflected by one dial or digit increment. Can be multiple multipliers per meter	C	[M] when ReportType='METER'	
Summary Interval Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	
Summary Interval Read Estimated Actual Flag	Flag identifiying if beginning and ending meter reads are estimated or actual		[M] when ReportType ='METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]

RXQ.3.6.1 Usage

Data Elem. Name	Description	Use	Condition	Comments [Options]
Summary Interval Read Unit of Measure	Unit of measure for read	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Summary Interval Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when ReportType ='METER'	
Summary Interval Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when ReportType ='METER'	
Summary Interval Summary Consumption	Total consumption on interval metered services			
Summary Interval Quantity Usage Code	Code distinguishes between estimated usage and actual usage	M		[Actual, Estimated]
Summary Interval Quantity	Usage	M		
Summary Interval Quantity Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour]
Summary Interval Number of Dials / Digits	Number of meter dials or digits on the meter	C	[M] when Report Type ='METER'	X12 uses dials to left of decimal, digits to right of decimal
Summary Interval Role	Code that defines the effect of consumption on summarized total.	C	[M] when Report Type ='METER'	[Subtractive; Additive; Ignore]
Summary Interval ID	Serial number identifier for a specific interval meter	RBC		
Summary Interval Type	Meter Type			[See Meter Type Definition]
Summary Interval Rate Class	Rate Class	C		
Summary Interval Rate Subclass	Rate Subclass	C		
Meter Add'l Info Code	Code used to define if the meter is 'behind the meter' (e.g. Cogen')	BC	[M] when meter is considered 'behind the meter']	[Behind the meter]
Pressure Correction Factor	Corrects for varying delivery pressures	C	[M] when ReportType= 'METER'	
Non-Interval Meter Read Therm Factor	Converts volumetric meter reading data to therm values	C	[M] when ReportType= 'METER' and ServiceType= 'GAS' and UnitMeasure = 'THERM'	
Non-Interval Meter Exchange Date	Date meter was exchanged	M		
Non-Interval Meter Read Transformer Loss Multiplier	Transformer Loss Multiplier. When a Customer owns a transformer and the transformer loss is not measured by the meter.	C	[M] when this measure is available	
Non-Interval Meter Read Multiplier	Represents the number of units that are reflected by one dial or digit increment. Can be multiple multipliers per meter	C	[M] when ReportType='METER'	
Non-Interval Meter Read Power Factor	Relationship between Watts and Volt - Amperes necessary to supply electric load	C	[M] when this measure is available	
Non-Interval Meter Read Estimated Actual Flag	Flag identifiying if beginning and ending meter reads are estimated or actual	C	[M] when ReportType ='METER'	[Beg / End actual; Beg actual / End estimated; Actual Total; As Billed; Beg est. / End actual; Beg est. / End est.]
Non-Interval Meter Read Unit of Measure	Unit of measure for read	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]
Non-Interval Meter Read Beginning	Value specifying beginning reading for the metering period.	C	[M] when ReportType ='METER'	

RXQ.3.6.1 Usage

Data Elem. Name	Description	Use	Condition	Comments [Options]
Non-Interval Meter Read Ending/Single	The ending reading or single reading for metering period.	C	[M] when ReportType ='METER'	
Non-Interval Meter Read Time Of Use	Code that defines whether this usage is on peak, off peak, or intermediate peak			[On Peak, Off Peak, Intermediate Peak,Total,Low]
Non-Interval Meter Number of Dials / Digits	Number of meter dials or digits on the meter	C	[M] when Report Type ='METER'	
Non-Interval Meter Role	Code that defines the effect of consumption on summarized total.	C	[M] when Report Type ='METER'	[Subtractive; Additive; Ignore]
Non-Interval Meter ID	Serial number identifier for a specific interval meter	RBC		
Non-Interval Meter Type	Type of usage that is reported. Consists of 2-digit prefix and 3-digit suffix. See 'X.X Meter Type Definition'.			[See Meter Type Definition]
Non-Interval Rate Class	Rate Class	C		
Non-Interval Rate Subclass	Rate Subclass	C		
Unmetered Quantity Usage Code	Code distinguishes between estimated usage and actual usage	M		[Actual, Estimated]
Unmetered Quantity	Unmetered Usage	M		
Unmetered Quantity Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]

RXQ.3.6.1 Usage

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Actual Estimated Flag	Actual	Actual	QD
Actual Estimated Flag	Estimated	Estimated	KA
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Final Indicator	No	Not last usage to be sent by metering agent	[blank]
Final Indicator	Yes	Identifies last usage to be sent by metering agent	F
Meter Role (Non-Interval, Interval, Summary Interval)	Additive	Additive	A
Meter Role (Non-Interval, Interval, Summary Interval)	Ignore	Ignore	I
Meter Role (Non-Interval, Interval, Summary Interval)	Subtractive	Subtractive	S
Party Calculating Bill	Distribution Co	Distribution Co	LDC
Party Calculating Bill	Dual	Each party calculates own charges	DUAL
Party Calculating Bill	Retailer	Retailer	ESP
Party Sending Bill	Distribution Co	Distribution Co	LDC
Party Sending Bill	Dual	Each party sends bill to customer	DUAL
Party Sending Bill	Retailer	Retailer	ESP
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Actual Total	Total is actual reading	AF
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	As Billed	As Billed	BO
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg / End Actual	Beginning and Ending reading are actual readings	AA
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg / End Estimated	Beginning and Ending reading are estimated	EE
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg Actual / End Estimated	Beginning reading is actual reading; Ending reading is an estimate	AE
Read Estimated Actual (Non-Interval, Interval, Summary Interval)	Beg Estimated / End Actual	Beginning reading is estimated reading; Ending reading is actual	EA
Read Time of Use (Non-Interval, Summary Interval)	Intermediate Peak	Intermediate Peak	43
Read Time of Use (Non-Interval, Summary Interval)	Low	Low	66
Read Time of Use (Non-Interval, Summary Interval)	Off Peak	Off Peak	41
Read Time of Use (Non-Interval, Summary Interval)	On Peak	On Peak	42
Read Time of Use (Non-Interval, Summary Interval)	Total	Total	51
Read Unit of Measure	Ccf	CCF	CCF
Read Unit of Measure	Kilovolt Amperes	Kilovolt Amperes	K4
Read Unit of Measure	kilovolt Amperes Reactive Demand	kilovolt Amperes Reactive Demand	K2
Read Unit of Measure	Kilovolt Amperes Reactive Hour	Kilovolt Amperes Reactive Hour	K3
Read Unit of Measure	kiloWatt demand	kiloWatt demand	K1
Read Unit of Measure	Kilowatt Hour	kiloWatt hour consumption	KH
Read Unit of Measure	Mcf	MCF	MCF
Read Unit of Measure	Therms	Therms	THERMS
Report Type Code	Interval	Interval	CI

RXQ.3.6.1 Usage

Data Element	Code Description	Code Definition	Code Value
Report Type Code	Mixed	Mixed	DR
Report Type Code	Non-Interval	Non-Interval	DD
Transaction Purpose	Cancellation	Cancellation	01
Transaction Purpose	Original	Original	00
Unmetered Unit of Measure	kiloWatt demand	kiloWatt demand	K1
Unmetered Unit of Measure	kiloWatt hour	kiloWatt hour consumption	KH
Unmetered Unit of Measure	Watts	Watts	99
Usage Detail Category	Billed	Usage actually billed to Customer by Billing Party	BB
Usage Detail Category	Interval	Interval usage detail	PM
Usage Detail Category	Interval Summary	Interval usage summarized by meter, time of use	BO
Usage Detail Category	Non-Interval	Non-interval usage summarized by meter, read period	PL
Usage Detail Category	Non-Interval Summary	Non-interval usage summarized by read period	SU
Usage Detail Category	Unmetered	Unmetered usage	BD

RXQ.3.6.1 Usage

X12 EDI Subtab

X12 Mapping Guidelines

867 NAESB RXQ.3.6.1 Usage for Billing

Functional Group ID=PT

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Transfer and Resale Report Transaction Set (867) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to: (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations to an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BPT	Beginning Segment for Product Transfer and Resale	M	1		
	050	DTM	Document Due Date (DTM~649)	C	1		
M	060	REF	Customer ID (REF~12/Q5)	M	1		
	060	REF	Non-Billing Party Account ID (REF~11)	C	1		
	060	REF	Old Customer ID (REF~45)	C	1		
	060	REF	Enrollment ID (REF~TN)	C	1		
M	060	REF	Party Sending Bill (REF~BLT)	M	1		
M	060	REF	Party Calculating Non-Billing Party Charges (REF~PC)	M	1		
	060	REF	Power Region (REF~SR)	C	1		
			LOOP ID - N1			1	
M	080	N1	Name: Distribution Company (N1~8S)	M	1		
			LOOP ID - N1			1	
	080	N1	Name: Registration Agent (N1~AY)	C	1		
			LOOP ID - N1			1	
M	080	N1	Name: Supplier (N1~SJ)	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PTD			1	
M	010	PTD	Monthly Billed Summary (PTD~BB)	M	1		
M	020	DTM	PTD~BB Service Period Start Date (DTM~150)	M	1		
M	020	DTM	PTD~BB Service Period End Date (DTM~151)	M	1		
			LOOP ID - QTY			1	
M	110	QTY	PTD~BB Billed kiloWatt Hours (QTY~D1)	M	1		
			LOOP ID - QTY			1	
M	110	QTY	PTD~BB Billed Demand (QTY~D1)	M	1		
			LOOP ID - QTY			1	

RXQ.3.6.1 Usage

M	110	QTY	PTD~BB Measured Demand (QTY~QD)	M	1	
			LOOP ID - PTD			1
M	010	PTD	Non-Interval Summary (PTD~SU)	M	1	
	020	DTM	PTD~SU Service Period Start Date (DTM~150)	C	1	
	020	DTM	PTD~SU Service Period End Date (DTM~151)	C	1	
	020	DTM	PTD~SU Exchange Date (DTM~514)	C	1	
M	030	REF	PTD~SU Meter Type (REF~MT)	M	1	
			LOOP ID - QTY			>1
M	110	QTY	PTD~SU Quantity (QTY~QD)	M	1	
			LOOP ID - PTD			1
M	010	PTD	Non-Interval Detail (PTD~PL)	M	1	
	020	DTM	PTD~PL Service Period Start Date (DTM~150)	C	1	
	020	DTM	PTD~PL Service Period End Date (DTM~151)	C	1	
	020	DTM	PTD~PL Exchange Date (DTM~514)	C	1	
	030	REF	PTD~PL Number of Dials (REF~IX)	C	1	
M	030	REF	PTD~PL Meter Role (REF~JH)	M	1	
M	030	REF	PTD~PL Meter Type (REF~MT)	M	1	
			LOOP ID - QTY			>1
M	110	QTY	PTD~PL Quantity (QTY~QD)	M	1	
M	160	MEA	PTD~PL Meter Reads (MEA~AA)	M	1	
M	160	MEA	PTD~PL Transformer Loss Factor (MEA~~CO)	M	1	
M	160	MEA	PTD~PL Meter Multiplier (MEA~~MU)	M	1	
M	160	MEA	PTD~PL Power Factor (MEA~~ZA)	M	1	
			LOOP ID - PTD			1
M	010	PTD	Unmetered Services (PTD~BD)	M	1	
M	020	DTM	PTD~BD Service Period Start Date (DTM~150)	M	1	
M	020	DTM	PTD~BD Service Period End Date (DTM~151)	M	1	
M	030	REF	PTD~BD Unmetered Service Type (REF~PRT)	M	1	
			LOOP ID - QTY			>1
M	110	QTY	PTD~BD Quantity of Unmetered Services (QTY~QD)	M	1	
			LOOP ID - PTD			1
M	010	PTD	Interval Summary (PTD~BO)	M	1	
	020	DTM	PTD~BO Service Period Start Date (DTM~150)	C	1	
	020	DTM	PTD~BO Service Period End Date (DTM~151)	C	1	
	020	DTM	PTD~BO Exchange Date (DTM~514)	C	1	
M	030	REF	PTD~BO Meter Role (REF~JH)	M	1	
M	030	REF	PTD~BO Meter Type (REF~MT)	M	1	
			LOOP ID - QTY			>1
M	110	QTY	PTD~BO Quantity	M	1	
M	160	MEA	PTD~BO Meter Reads (MEA~AA)	M	1	
M	160	MEA	PTD~BO Transformer Loss Factor (MEA~~CO)	M	1	
M	160	MEA	PTD~BO Meter Multiplier (MEA~~MU)	M	1	
M	160	MEA	PTD~BO Power Factor (MEA~~ZA)	M	1	
			LOOP ID - PTD			1

RXQ.3.6.1 Usage

M	010	PTD	Interval Detail (PTD~PM)	M	1		
	020	DTM	PTD~PM Service Period Start Date (DTM~150)	C	1		
	020	DTM	PTD~PM Service Period End Date (DTM~151)	C	1		
	020	DTM	PTD~PM Exchange Date (DTM~514)	C	1		
M	030	REF	PTD~PM Channel Number (REF~6W)	M	1		
M	030	REF	PTD~PM Meter Type (REF~MT)	M	1		
M	030	REF	PTD~PM Meter Role (REF~JH)	M	1		
			LOOP ID - QTY			>1	
M	110	QTY	PTD~PM Quantity	M	1		
M	210	DTM	PTD~PM Interval End Time (DTM~194)	M	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	030	SE	Transaction Set Trailer	M	1		

RXQ.3.6.1 Usage

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~867~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set 867 Product Transfer and Resale Report		
Must Use	**ST02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

RXQ.3.6.1 Usage

Segment: **BPT** **Beginning Segment for Product Transfer and Resale**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and transmit identifying data
Syntax Notes: **1** If either BPT05 or BPT06 is present, then the other is required.
Semantic Notes: **1** BPT02 identifies the transfer/resale number.
2 BPT03 identifies the transfer/resale date.
3 BPT08 identifies the transfer/resale time.
4 BPT09 is used when it is necessary to reference a Previous Report Number.
Comments:
Notes: This beginning segment for Usage reports:
-Original versus Cancel status(BPT01)
-Usage ID (BPT02) and cross-reference to original Usage ID if this is a cancellation (BPT09)
-Date of transaction (BPT03)
-Whether interval, non-interval or both are being reported (BPT04)
-If this is the final usage for the Customer (BPT07)

REQUIRED

BPT~00~200102010001~20010131~DD
BPT~00~200102010001~20010131~DD~~~F
BPT~01~200102020001~20010131~DD~~~~~2001020100001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BPT01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**
			Code identifying purpose of transaction set		
			00 Original — Contains original usage for the Customer. If usage is canceled and restated, the restatement is sent as an original.		
			01 Cancellation — Cancels usage previously reported for the Customer. This cancels the entire period of usage reported with Usage ID found in BPT09.		
Must Use	**BPT02**	**127**	**Reference Identification**	**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A unique transaction identification number assigned by the originator of this transaction. ID must be unique over time, only contain uppercase letters (A to Z) and digits (0 to 9), dashes ('-'), or periods ('.'). All other punctuation (spaces, commas, etc.) must be excluded.		
Must Use	**BPT03**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
			Date that the data was processed by the sender's application system		

RXQ.3.6.1 Usage

Must Use	**BPT04**	**755**	**Report Type Code**	**O**	**ID 2/2**
			Code indicating the title or contents of a document, report or supporting item		
			C1 — Cost Data Summary Interval Meters		
			DD — Distributor Inventory Report Non-interval metered and unmetered		
			DR — Datalog Report Both Interval and Non-interval Meters/Unmetered		
Dep	**BPT07**	**306**	**Action Code**	**O**	**ID 1/2**
			Code indicating type of action REQUIRED for Final Usage Statement		
			F — Final Final meter read data being sent for this Customer. The Customer account is closed by the Distribution Company or the Customer switched to a new Supplier.		
Dep	**BPT09**	**127**	**Reference Identification**	**O**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier REQUIRED when BPT01=01 (cancel); this element contains the Usage ID from BPT02 of the transaction that is being cancelled		

RXQ.3.6.1 Usage

Segment: **DTM** **Document Due Date (DTM~649)**
Position: 050
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Date the Non-Billing Party must provide the 810 transaction back to the Billing Party. In Bill Ready billing, the meter read party sends usage to the Non-Billing Party, who calculates their own portion of the bill and sends an invoice to the Billing Party

Transactions received by the Billing Party after this DTM~649 date and time require the Billing Party notify the Non-Billing Party via the 824 (Application Advice) to either
-resend the transaction during the next billing window, or
-do nothing; the Billing Party will hold the transaction until the next billing window

REQUIRED for Bill Ready
DTM~649~20020131~1800

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 649 Document Due		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		
Must Use	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM, where H = Hours (00-23) and M = Minutes (00-59) in prevailing time at the meter controls. X12 does not allow 2400 for time; use 2359 to indicate 'midnight'.		
Used	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow AT Alaska Time CT Central Time		

RXQ.3.6.1 Usage

ET	Eastern Time
GM	Greenwich Mean Time
MT	Mountain Time
PT	Pacific Time
TT	Atlantic Time

RXQ.3.6.1 Usage

Segment: **REF** **Customer ID (REF~12/Q5)**
Position: 060
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in marketplace. Governing documents define whether REF~12 or REF~Q5 is REQUIRED.

- REF~12 uses REF02 for ID; usually LDC Account Number
- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~10111111234567890
REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 12 — Billing Account Account number under which billing is rendered Account number ID; sent in REF02 Q5 — Property Control Number Service Delivery ID (e.g. ESIID); sent in REF03	**M ID 2/3**
Used	**REF02**	**127**	**Customer Account ID; use when REF01=12** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**
Must Use	**REF03**	**352**	**Customer SD ID; use when REF01=Q5** A free-form description to clarify the related data elements and their content	**X AN 1/80**

RXQ.3.6.1 Usage

Segment: **REF** **Non-Billing Party Account ID (REF~11)**
Position: 060
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED when previously provided by Non-Billing Party

REF~11~10111111234567890

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	**M ID 2/3**
Used	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.1 Usage

Segment: **REF** **Old Customer ID (REF~45)**
Position: 060
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED when Customer ID has changed in last 45 days

REF~45~10111111234567890

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.1 Usage

Segment: **REF** **Enrollment ID (REF~TN)**
Position: 060
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Cross-reference ID to the value in BGN06 of the Enrollment or Drop Transactions sent from the Distribution Company to the Registration Agent.

REQUIRED on Final Usage in Centralized Registration marketplaces

REF~TN~1234567820010620

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification TN Transaction Reference Number		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.1 Usage

Segment: **REF** **Party Sending Bill (REF~BLT)**
Position: 060
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Identifies party sending the bill to the Customer. Valid REF~BLT values are:
-LDC: the Distribution Company sends the Bill to the Customer
-ESP: Supplier sends bill
-DUAL: each party sends a bill to the Customer
REQUIRED

REF~BLT~ESP

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification BLT Billing Type		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.1 Usage

Segment:	**REF** **Party Calculating Non-Billing Party Charges (REF~PC)**
Position:	060
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Identifies party calculating Non-Billing Party charges. Valid REF~PC values are: -LDC: Distribution Company calculates Non-Billing Party charges on the bill -ESP: the Supplier calculates the Non-Billing Party portion of the charges -DUAL: the Non-Billing Party calculates their own portion of the charges REQUIRED REF~PC~DUAL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification PC Production Code		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.1 Usage

Segment:	**REF** **Power Region (REF~SR)**
Position:	060
Loop:	
Level:	Heading
Usage:	Conditional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Power Region of the Customer ID REQUIRED in Centralized Registration marketplaces REF~SR~ERCOT REF~SR~SERC REF~SR~SPP REF~SR~WSCC

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification SR Sales Responsibility Power Region	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ERCOT Electric Reliability Council of Texas SERC Southwest Electric Reliability Council SPP Southwest Power Pool WSCC Western States Coordinating Council	

RXQ.3.6.1 Usage

Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41 (Distribution Company to the Registration Agent)
N1~8S~DISTRIBUTE-IT INC.~1~007909411 (Registration Agent to the Supplier)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			8S — Consumer Service Provider (CSP)		
Must Use	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Distribution Company Name		
Must Use	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Distribution Company Entity ID		
Dep	N106	98	**Entity Identifier Code**	O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			41 — Submitter		

RXQ.3.6.1 Usage

Segment: **N1** **Name: Registration Agent (N1~AY)**
Position: 080
Loop: N1 Conditional
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: Registration Agent Name and Entity ID
REQUIRED when the Registration Agent receives the usage

N1~AY~REGISTER-IT INC.~1~888777888~~40 (Distribution Company to the Registration Agent)
N1~AY~REGISTER-IT INC.~1~888777888~~41 ((Registration Agent to the Supplier)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual AY Clearinghouse	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name Registration Agent Name	**X AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code Registration Agent Entity ID	**X AN 2/80**
Must Use	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter	**O ID 2/3**

RXQ.3.6.1 Usage

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes:
Supplier Name and Entity ID
REQUIRED

N1~SJ~SUPPLY LTD~9~007909422CRN1~~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider	**M**	**ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name Supplier Name	**X**	**AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X**	**ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier Entity ID	**X**	**AN 2/80**
Dep	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 40 Receiver	**O**	**ID 2/3**

RXQ.3.6.1 Usage

Segment: **PTD** **Monthly Billed Summary (PTD~BB)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Monthly Billed Summary PTD~BB set of information is obtained from the billing system to reflect the data that the Customer will see on the bill

PTD loops may be sent in any order
REQUIRED. One Monthly Billed Summary PTD~BB set is required for every Customer.

PTD~BB

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PTD01**	**521**	**Product Transfer Type Code**	**M ID 2/2**
			Code identifying the type of product transfer	
			BB — Demand Information Only No physical transfer of material occurs; historical demand information is provided for record purposes only	

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BB Service Period Start Date (DTM~150)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Service Period Start Date
REQUIRED except in second of two meter exchange PTD loops

DTM~150~20050101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BB Service Period End Date (DTM~151)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in first of two meter exchange PTD loops

DTM~151~20050131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~BB Billed kiloWatt Hours (QTY~D1)**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Billed kiloWatt Hours as shown on the Customer's bill. May or may not be the same as measured kilowatt hours.
REQUIRED

QTY~D1~22348~KH

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity D1 Billed		
Must Use	**QTY02**	**380**	**Quantity**	**M**	**R 1/15**
			Numeric value of quantity		
Must Use	**QTY03**	**C001**	**Composite Unit of Measure**	**M**	
			To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101		
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour		

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~BB Billed Demand (QTY~D1)**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: REQUIRED if Customer ID has measured demand KW. This must be sent even if billed/derived demand is equal to measured demand.
QTY~D1~22~K1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity	
			D1 — Billed Used when Quantity in QTY02 is a "Billed" quantity.	
Must Use	**QTY02**	**380**	**Quantity**	**M R 1/15**
			Numeric value of quantity	
Must Use	**QTY03**	**C001**	**Composite Unit of Measure**	**M**
			To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			K1 — Kilowatt Demand kW	

RXQ.3.6.1 Usage

Segment:	**QTY PTD~BB Measured Demand (QTY~QD)**
Position:	110
Loop:	QTY Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify quantity information
Syntax Notes:	**1** At least one of QTY02 or QTY04 is required.
	2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:	**1** QTY04 is used when the quantity is non-numeric.
Comments:	
Notes:	REQUIRED if account measures kiloWatt demand (KW) QTY~QD~14~K1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity KA Estimated Estimated QD Quantity Delivered Actual	
Must Use	**QTY02**	**380**	**Quantity**	**M R 1/1**
			Numeric value of quantity	
Must Use	**QTY03**	**C001**	**Composite Unit of Measure**	**M**
			To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand	

RXQ.3.6.1 Usage

Segment: **PTD** **Non-Interval Summary (PTD~SU)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Non-Interval Summary PTD~SU All reports consumption and demand summarized by unit of measure. There will be one Non-interval detail PTD~SU loop for
-each meter for each unit of measure

One PTD~SU loop is provided (if measured) for coincidental peak demand REQUIRED for each meter for each unit of measure.

PTD~SU

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PTD01**	**521**	**Product Transfer Type Code**	**M ID 2/2**
			Code identifying the type of product transfer	
			SU Summary	

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~SU Service Period Start Date (DTM~150)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Service Period Start Date
REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~SU Service Period End Date (DTM~151)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~SU Exchange Date (DTM~514)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Meter exchange date. There will be two PTD loops when a meter is exchanged.
-The first PTD includes the Service Period Start Date and the Meter Exchange Date
-The second PTD includes the Meter Exchange Date and the Service Period End Date
REQUIRED when a meter is exchanged and the meter agent does not change.

First PTD:
DTM~150~20010101
DTM~514~20010114

Second PTD:
DTM~514~20010114
DTM~151~20010128

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M ID 3/3**
			Code specifying type of date or time, or both date and time 514 Transferred	
Must Use	**DTM02**	**373**	**Date**	**X DT 8/8**
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage

Segment: **REF** **PTD~SU Meter Type (REF~MT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:
-xx is the type of consumption and,
-yyy is the metering interval reported by the metering agent

Type of Consumption Valid Values:

-K1: Kilowatt Demand (kW)
-K2: KiloVolt Amperes Reactive Demand (kVAR)
-K3: KiloVolt Amperes Reactive Hour (kVARH)
-K4: KiloVolt Amperes (kVA)
-KH: Kilowatt Hour (kWh)

Metering Interval Reported for Billing Purposes (yyy) Valid Values:

-nnn: Number of minutes from 001 to 999
-DAY: Daily
MON:Monthly
REQUIRED

REF~MT~KHMON

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~SU Quantity (QTY~QD)**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Only one QTY loop is used when reporting time of use. Each individual time of use (i.e. On Peak kWh, Off Peak kWh, Mid Peak kWh, etc.) will be reported in separate MEAs under the QTY.

The QTY02 will equal the totalizer. If the totalizer is not measured, the QTY02 will equal the sum of the usage provided in the MEA03s.

REQUIRED: one QTY loop for each time of use (e.g. one for On Peak kWh, one for Off Peak, kWh, one for Total kWh, etc.)

QTY~QD~1000

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity	
			KA Estimated	
			Quantity is estimated; required when reporting missing or abundance of consumption	
			QD Quantity Delivered	
			Quantity is actual	
Must Use	**QTY02**	**380**	**Quantity**	**X R 1/15**
			Numeric value of quantity	
Used	**QTY03**	**C001**	**Composite Unit of Measure**	**O**
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			K3 Kilovolt Amperes Reactive Hour	
			kVARH	
			KH Kilowatt Hour	
			kWh	

RXQ.3.6.1 Usage

Segment: **PTD** **Non-Interval Detail (PTD~PL)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
There will be one Non-interval detail PTD~PL loop for
-each meter for each unit of measure
-missing or abundance of consumption
-meter exchange before: includes the Service Period Start Date and the Meter Exchange Date
-meter exchange after: includes the Meter Exchange Date and the Service Period End Date.

For Additive/Subtractive Metering Only:
This loop is also used to for Additive/Subtractive Metering when the Master Meter is on one Customer ID and the additive and/or subtractive meters are on Customer IDs that are different than the master Meter. All additive usage is summed. All subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Additive/Subtractive usage must be provided in the PTD06 by using code "AI" or code "AO".

For Missing or Abundance of Consumption - Non Interval:
This loop is also used to report missing or abundance of consumption when the consumption (added or subtracted) provided has not been registered by the meter, for example: tampering, fast, slow and/or flat/bypass. The conditions exist only for non-interval meters on the same Customer ID. The meter number must be provided in the PTD04 and PTD05. The type of missing or abundance consumption must be provided in the PTD06. . The receiver must add or subtract this consumption from the meter number provided in the PTD05. Net usage for the Customer ID is provided in the PTD~SU Loop.
REQUIRED for each meter for each unit of measure.

PTD~PL~~~MG~1234568MG
PTD~PL~~~~~AO (used to report subtractive metering off a master meter)
PTD~PL~~~MG~1234568MG~MD (used to report tampering)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PTD01**	**521**	**Product Transfer Type Code**	**M ID 2/2**
			Code identifying the type of product transfer	
			PL — Property Level Movement/Sale Non-Interval Detail	
Dep	**PTD04**	**128**	**Reference Identification Qualifier**	**X ID 2/3**

RXQ.3.6.1 Usage

			Code qualifying the Reference Identification MG — Meter Number Not used if the PTD06= "AO" or "AI"		
Dep	**PTD05**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present. Not used if the PTD06= "AO" or "AI".	**X**	**AN 1/30**
Used	**PTD06**	**486**	**Product Transfer Movement Type Code** To indicate the type of product transfer movement RBC To indicate the type of product transfer movement. This field is only used when reporting the type of Master/Additive usage, Master/Subtractive usage or missing or abundance of consumption adjustment. The receiver must add this consumption to the meter number provided in the PTD05. AI — Adjustment In Additive Metering Additive Usage for Additive meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable additive meters. When the PTD06 equals "AI", the REF~JH equals "A". AO — Adjustment Out Subtractive Metering Subtractive Usage for Subtract meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable subtractive meters. . When the PTD06 equals "AO", the REF~JH equals "S". CD — Customer to Distributor Added Flat /Bypass - Missing or Abundance of Consumption For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption to the meter number provided in the PTD05. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "CD", the REF~JH equals "A". DC — Distributor to Customer Added Slow- Missing or Abundance of Consumption	**O**	**ID 2/2**

RXQ.3.6.1 Usage

	For adjusting consumption when the added consumption provided has not been registered by the meter. The conditions exists only for non-interval meters on the same Customer ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "DC", the REF~JH equals "A".
DM	Distributor to Manufacturer
	Subtracted Fast- Missing or Abundance of Consumption For adjusting consumption when the subtracted consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must subtract this consumption to the meter number provided in the PTD05. When the PTD06 equals "DM", the REF~JH equals "S".
MD	Manufacturer to Distributor
	Added Tampering- Missing or Abundance of Consumption For adjusting consumption when the added consumption provided has not been registered by the meter. The condition exists only for non-interval meters on the same Customer ID. The receiver must add this consumption to the meter number provided in the PTD05. When the PTD06 equals "MD", the REF~JH equals "A".

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~PL Service Period Start Date (DTM~150)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Service Period Start Date
REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~PL Service Period End Date (DTM~151)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment:	**DTM** **PTD~PL Exchange Date (DTM~514)**
Position:	020
Loop:	PTD Mandatory
Level:	Detail
Usage:	Conditional
Max Use:	1
Purpose:	To specify pertinent dates and times
Syntax Notes:	**1** At least one of DTM02 DTM03 or DTM05 is required. **2** If DTM04 is present, then DTM03 is required. **3** If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	Meter exchange date. There will be two PTD loops when a meter is exchanged. -The first PTD includes the Service Period Start Date and the Meter Exchange Date -The second PTD includes the Meter Exchange Date and the Service Period End Date REQUIRED when a meter is exchanged and the meter agent does not change. First PTD: DTM~150~20010101 DTM~514~20010114 Second PTD: DTM~514~20010114 DTM~151~20010128

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 514 Transferred		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **REF** **PTD~PL Number of Dials (REF~IX)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Number of dials on the meter displayed as a decimal where:
-the number of dials is integer value (number to the left of the decimal point), and
-the number of dials is the decimal value (number to the right of the decimal point)
REQUIRED for meters with dials

REF~IX~6.0
REF~IX~5.1
REF~IX~4.2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification IX Item Number	**M ID 2/3**
Used	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.1 Usage

Segment: **REF** **PTD~PL Meter Role (REF~JH)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Role defines whether to add, subtract or do neither with the value and the summarized total
REQUIRED

REF~JH~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification JH Tag		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A Additive This consumption must be added to the summarized total I Ignore This consumption did not contribute to the summarized total (do nothing) S Subtractive This consumption must be subtracted from the summarized total		

RXQ.3.6.1 Usage

Segment:	**REF** **PTD~PL Meter Type (REF~MT)**
Position:	030
Loop:	PTD Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where: -xx is the type of consumption and, -yyy is the metering interval reported by the metering agent Type of Consumption Valid Values: -K1: Kilowatt Demand (kW) -K2: KiloVolt Amperes Reactive Demand (kVAR) -K3: KiloVolt Amperes Reactive Hour (kVARH) -K4: KiloVolt Amperes (kVA) -KH: Kilowatt Hour (kWh) Metering Interval Reported for Billing Purposes (yyy) Valid Values: -nnn: Number of minutes from 001 to 999 -DAY: Daily MON:Monthly REQUIRED REF~MT~KHMON

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~PL Quantity (QTY~QD)**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:
Quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any additive/Master Meter, subtractive/Master Meter or missing or abundance of consumption occurring in the PTD~PL when the PTD06 has a valid code.

MEA with an MEA07 = "51" (total) is required.

"KA" - Estimate must be used when reporting missing or abundance of consumption.

REQUIRED: one QTY loop for each time of use (e.g. one for On Peak kWh, one for Off Peak, kWh, one for Total kWh, etc.)

QTY~QD~1000

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity Note: There may be instances where the Quantity Qualifier could be AO or QD while the MEA01 is not AA (Meter read-beginning actual/ending actual). AO Verified Receipts Verified as actual value KA Estimated Quantity is estimated; required when reporting missing or abundance of consumption QD Quantity Delivered Quantity is actual	
Must Use	**QTY02**	**380**	**Quantity**	**X R 1/15**
			Numeric value of quantity	

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~PL Meter Reads (MEA~AA)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: REQUIRED unless reporting Additive/Subtractive Metering Usage or Adjusted (missing or abundance) Consumption. (if the PTD06 equals "AI" , "AO","CD","DC","DM", or "MD")

MEA with an MEA07 = "51" (total) is required unless reporting Additive/Subtractive Metering Usage (the PTD06 equals "AI" or "AO","CD", "DC","DM", or "MD")

MEA~AA~PRQ~1000~KH~1000~1100~51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**	**O ID 2/2**
			Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated EA Meter reading-beginning estimated/ending actual EE Meter reading-beginning estimated/ending estimated	
Must Use	**MEA02**	**738**	**Measurement Qualifier**	**O ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies PRQ Product Reportable Quantity Consumption	
Must Use	**MEA03**	**739**	**Measurement Value**	**X R 1/20**
			The value of the measurement Total consumption after meter multiplier and transformer loss factor are applied.	
Must Use	**MEA04**	**C001**	**Composite Unit of Measure**	**X**
			To identify a composite unit of measure (See Figures Appendix for examples of use) Please note that this is a composite data element, populate C00101.	
Must	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**

RXQ.3.6.1 Usage

Use			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			K1 Kilowatt Demand kW K2 Kilovolt Amperes Reactive Demand kVAR K3 Kilovolt Amperes Reactive Hour kVARH K4 Kilovolt Amperes kVA KH Kilowatt Hour kWh		
Dep	**MEA05**	**740**	**Range Minimum**	**X**	**R 1/20**
			The value specifying the minimum of the measurement range The Beginning read is required when C00101, element 355 Unit of Measure is equal to "K3" - kVARH (KiloVolt Amperes Reactive Hour), "K4" - kVA (KiloVolt Amperes) "KH" - kWh (Kilowatt Hour). The Beginning read is not used for "K1" - kW (Kilowatt Demand) "K2" - kVAR (KiloVolt Amperes Reactive Demand).		
Must Use	**MEA06**	**741**	**Range Maximum**	**X**	**R 1/20**
			The value specifying the maximum of the measurement range Ending read when C00101, element 355 Unit of Measure is equal to "K3" - kVARH (KiloVolt Amperes Reactive Hour) "K4" - kVA (KiloVolt Amperes) "KH" - kWh (Kilowatt Hour) Single read when "K1" - kW (Kilowatt Demand) "K2" - kVAR (KiloVolt Amperes Reactive Demand)		
Must Use	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
			Code used to benchmark, qualify or further define a measurement value 41 Off Peak 42 On Peak 43 Intermediate Mid-Peak 51 Total Totalizer/Total/Max (Demand) 71 Low Summer Super On-Peak		

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~PL Transformer Loss Factor (MEA~~CO)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments: **1** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Transformer Loss Factor not measured by the meter.

Where the delivery point is prior to the transformation such that the Customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater that unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness.

Where the delivery point is after the transformation such that the Customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less that unity. E.g. 0.995, to reflect a negative adjustment to the meter reads.

The value in the field will always be a positive value
REQUIRED for ELECTRIC when the transformer loss is not measured by the meter
MEA~~CO~1.015 (format when the factor is positive)
MEA~~CO~.985 (format when the factor is negative)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies CO Core Loss	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~PL Meter Multiplier (MEA~~MU)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments: **1** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: (Ending read - Beginning read) * Meter Multiplier = Billed Usage

If no meter multiplier, then populate with "1"

Format of the multiplier could be in the form of a fraction (e.g. 48.78432)

REQUIRED

MEA~~MU~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier**	**O ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier	
Must Use	**MEA03**	**739**	**Measurement Value**	**X R 1/20**
			The value of the measurement	

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~PL Power Factor (MEA~~ZA)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Relationship between Watts and Volt - amperes necessary to supply electric load
REQUIRED if measured

MEA~~ZA~.95

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies ZA Power Factor	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**

RXQ.3.6.1 Usage

Segment: **PTD** **Unmetered Services (PTD~BD)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD = BD (Unmetered Services)

One PTD loop is required per device type per Customer account id. Total consumption for all unmetered services is at the unmetered device detail level. One loop is required for each unmetered device type per each unique wattage and/or lumen reported. Even though some consumption may be estimated, the consumption is reported as actual quantity delivered for unmetered services. The detail is required for Unmetered Services.

REQUIRED for each unmetered service type

PTD~BD

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PTD01**	**521**	**Product Transfer Type Code**	**M ID 2/2**
			Code identifying the type of product transfer	
			BD — Issue - Other Department Unmetered Services Detail	

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BD Service Period Start Date (DTM~150)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Service Period Start Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 150 Service Period Start	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BD Service Period End Date (DTM~151)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **REF** **PTD~BD Unmetered Service Type (REF~PRT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Provides additional information for the specified unmetered service. Includes type of device which this measurement loop references, additional text information which may be useful to the Supplier (e.g. a specific wattage of a light, additional text information for further clarification, etc.)
REQUIRED if there are unmetered services on Customer account

REF~PRT~MV~750
REF~PRT~SD~400 Company Owned
REF~PRT~SD~400 Customer Owned
REF~PRT~MV~Third party maintained facilities

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			PRT Product Type Defined Unmetered Service Type	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier RBC - see governing documents for valid unmetered type codes.	

AN	Antenna
AR	Argon
BB	Bill Boards
BS	Bus Shelters
CU	Cat Unit
ED	Electronic Device
FL	Fluorescent
HA	Historical/Antique
IN	Incandescent
LV	Levys
MH	Metal Halide
MV	Mercury Vapor
OT	Other Un-Metered
PA	Power Analog node
PB	Phone Booth
PO	Phone Outlet
PS	Pump Station

RXQ.3.6.1 Usage

			RR	Rail Road Crossings	
			SD	Sodium	
			TL	Traffic Lights	
			TR	Tranceiver	
			WM	Wallpacked Mercury Vapor	
			WS	Warning Sirens	
Dep	**REF03**	**352**	**Description**		**X AN 1/80**

A free-form description to clarify the related data elements and their content

Used to provide additional clarification information to the Non-Billing Party for the unmetered service when necessary. Used to provide the specific wattage/lumens for a light

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~BD Quantity of Unmetered Services (QTY~QD)**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Quantity is the total unmetered consumption per device type for the billable period. There is no PTD06 = "AI","A0","CD","DC","DM" or "MD" Adjusted Consumption in this loop. Billable quantity in the monthly usage may not match the invoiced quantity in the monthly invoice because of Distribution Company's tariff adjustments to the monthly invoice data.
REQUIRED: one QTY loop for each consumption quantity per device.

QTY~QD~2000~EA^^20^KH^^100

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M**	**ID 2/2**
			Code specifying the type of quantity QD Quantity Delivered		
Must Use	**QTY02**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity Total consumption of unmetered device type		
Must Use	**QTY03**	**C001**	**Composite Unit of Measure**	**O**	
			To identify a composite unit of measure (See Figures Appendix for examples of use) Note this is a composite data element, populate C00101		
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each		
Must Use	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**
			Value to be used as a multiplier to obtain a new value Number of unmetered devices for this specific Unmetered Service Type (as defined in the REF~PRT segment).		
Must Use	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken KH Kilowatt Hour		
Must Use	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**
			Value to be used as a multiplier to obtain a new value		

RXQ.3.6.1 Usage

Segment: **PTD** **Interval Summary (PTD~BO)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes:
1 If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Summary of monthly interval consumption at each meter. There will be separate PTD~BO loops to reflect summed adjusted consumption.

Individual intervals are not reported in the PTD~BO loop. The PTD~BO loop will never report KW or KVAR.

For Additive/Subtractive Metering Only:
This loop is also used for Additive/Subtractive Metering when the Master Meter is on one Customer ID and the additive and/or subtractive meters are on Customer ID that are different than the master Meter. All additive and subtractive usage is summed. It is possible to receive two additive/subtractive loops - one with summed additive usage and one with summed subtractive usage. When reporting usage for the additive/Master and/or subtractive/Master usage, the meter number is not provided in the PTD04 and PTD05. The type of Master/Subtractive and/or Master/ Additive usage must be provided in the PTD06 by using code "AI" or code "AO". Distribution Companies provide for the Master/Subtractive or Master/Additive net intervals in the PTD~PP when the PTD~BO element PTD06 equals "AI" or "AO". No netted usage is reported in this Loop. The receiver must net the PTD~BO Loops to determine Master Meter usage.

Missing or Abundance of Consumption:
Not reported for Interval Meters.
REQUIRED for each meter for each unit of measure.
PTD~BO~~~MG~1234568MG
PTD~BO~~~~~AI (used to report Additive/Master metering usage)
PTD~BO~~~~~AO (used to report Subtractive/Master metering usage)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	PTD01	521	**Product Transfer Type Code**	M ID 2/2
			Code identifying the type of product transfer	
			BO Designated Items	
			Consumption across intervals and across the same unit of measure summarized at the meter level	
Dep	PTD04	128	**Reference Identification Qualifier**	X ID 2/3
			Code qualifying the Reference Identification	
			MG Meter Number	
			Not used if the PTD06 = "AO" or "AI"	
Dep	PTD05	127	**Reference Identification**	X AN 1/30

RXQ.3.6.1 Usage

			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present. Not used if the PTD06 = "AO" or "AI".		
Used	**PTD06**	**486**	**Product Transfer Movement Type Code** To indicate the type of product transfer movement This field is only used when reporting the type of Master/Additive or Master/Subtractive usage. This indicates to the receiver that they will find the netted interval usage for the Master Meter the PTD~PP.	**O**	**ID 2/2**

AI	Adjustment In Additive Metering Additive Usage for Additive meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable additive meters. When the PTD06 equals "AI", the REF~JH equals "A".
AO	Adjustment Out Subtractive Metering Subtractive Usage for Subtract meters off the master meter where a different Customer ID has been assigned to the master and/or all applicable subtractive meters. . When the PTD06 equals "AO", the REF~JH equals "S".

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BO Service Period Start Date (DTM~150)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period Start Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BO Service Period End Date (DTM~151)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M ID 3/3**
			Code specifying type of date or time, or both date and time	
			151 Service Period End	
Must Use	**DTM02**	**373**	**Date**	**X DT 8/8**
			Date expressed as CCYYMMDD	

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~BO Exchange Date (DTM~514)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Meter exchange date. There will be two PTD loops when a meter is exchanged.
-The first PTD includes the Service Period Start Date and the Meter Exchange Date
-The second PTD includes the Meter Exchange Date and the Service Period End Date
REQUIRED when a meter is exchanged and the meter agent does not change.

DTM~514~19990201 - 1st PTD
DTM~150~19990214

DTM~514~19990214 - 2nd PTD
DTM~151~19990228

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 514 Transferred		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **REF** **PTD~BO Meter Role (REF~JH)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Role defines whether to add, subtract or do neither with the value and the summarized total
REQUIRED

REF~JH~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			JH — Tag		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A — Additive: This consumption contributed to the summarized total (do nothing)		
			I — Ignore: This consumption did not contribute to the summarized total (do nothing)		
			S — Subtractive: This consumption must be subtracted from the summarized total		

RXQ.3.6.1 Usage

Segment: **REF** **PTD~BO Meter Type (REF~MT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes:

Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:
-xx is the type of consumption and,
-yyy is the metering interval reported by the metering agent

Type of Consumption Valid Values:

-K1: Kilowatt Demand (kW)
-K2: KiloVolt Amperes Reactive Demand (kVAR)
-K3: KiloVolt Amperes Reactive Hour (kVARH)
-K4: KiloVolt Amperes (kVA)
-KH: Kilowatt Hour (kWh)

Metering Interval Reported for Billing Purposes (yyy) Valid Values:

-nnn: Number of minutes from 001 to 999
-DAY: Daily
MON:Monthly
REQUIRED

REF~MT~KHMON

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification MT Meter Ticket Number	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~BO Quantity**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes:
1 At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
1 QTY04 is used when the quantity is non-numeric.
Comments:
Notes:

Quantity is the total measured consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any master/additive/ subtractive meter usage.

Quantity is sent with a minimum of two digits and a maximum of four digits to the right of the decimal point, e.g., 525.15; 567.1375, etc., while adhering to the ANSI rules for providing Real numbers. For instance, if the quantity reported is:

525	then the QTY02 is reported as	525
525.1275	then the QTY02 is reported as	525.1275
525.12	then the QTY02 is reported as	525.12
525.10	then the QTY02 is reported as	525.1
0	then the QTY02 is reported as	0

Leading zeros are suppressed and trailing zeros are truncated.
REQUIRED

QTY~QD~746

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity	
			KA Estimated Quantity is estimated	
			QD Quantity Delivered Quantity is actual	
Must Use	**QTY02**	**380**	**Quantity**	**X R 1/15**
			Numeric value of quantity	

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~BO Meter Reads (MEA~AA)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Total (MEA with an MEA07 = "51") is required unless reporting Additive/Subtractive Metering Usage (the PTD06 equals "AI" or "AO").
REQUIRED unless reporting Additive/Subtractive Metering Usage. (if the PTD06 equals "AI" or "AO").

MEA~AF~~~KH~9500~10231~51

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA01**	**737**	**Measurement Reference ID Code**	**O ID 2/2**
			Code identifying the broad category to which a measurement applies AF Actual Total	
Must Use	**MEA04**	**C001**	**Composite Unit of Measure**	**X**
			To identify a composite unit of measure (See Figures Appendix for examples of use) This is a composite data element, please populate C00101	
Must Use	**C00101**	**355**	**Unit or Basis for Measurement Code**	**M ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K3 Kilovolt Amperes Reactive Hour kVARH KH Kilowatt Hour kWh	
Dep	**MEA05**	**740**	**Range Minimum**	**X R 1/20**
			The value specifying the minimum of the measurement range Beginning Read; Required when C00101 equals "KH" - kWh (Kilowatt Hour).	
Must Use	**MEA06**	**741**	**Range Maximum**	**X R 1/20**
			The value specifying the maximum of the measurement range Ending Read.	
Must	**MEA07**	**935**	**Measurement Significance Code**	**O ID 2/2**

RXQ.3.6.1 Usage

Use

Code used to benchmark, qualify or further define a measurement value

51	Total
	Totalizer/Total/Max (Demand)

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~BO Transformer Loss Factor (MEA~~CO)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: **1** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: Transformer Loss Factor not measured by the meter.

Where the delivery point is prior to the transformation such that the Customer is responsible for losses and the meter is after the transformer and therefore does not record losses, the transformer loss factor will be greater that unity. E.g. 1.006, to reflect a positive adjustment to the meter readiness.

Where the delivery point is after the transformation such that the Customer is not responsible for transformer losses, and the meter is prior to the transformer and therefore does reflect transformer losses, the transformer loss factor will be less that unity. E.g. 0.995, to reflect a negative adjustment to the meter reads.

The value in the field will always be a positive value
REQUIRED for ELECTRIC when the transformer loss is not measured by the meter

MEA~~CO~1.015 (format when the factor is positive)
MEA~~CO~.985 (format when the factor is negative)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies CO Core Loss	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~BO Meter Multiplier (MEA~~MU)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments: **1** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: (Ending read - Beginning read) * Meter Multiplier = Billed Usage

If no meter multiplier, then populate with "1"

Format of the multiplier could be in the form of a fraction (e.g. 48.78432)

Meter Multipliers for IDR Meters can be quite large. Format allows for eight digits to the left of the decimal and five digits to the right of the decimal, e.g., 9999999.99999.
REQUIRED for all IDR Meters when meter reads are reported. Not provided for additive/subtractive meters when they are on a different SD ID than the Master Meter because meter reads are not reported.

MEA~~MU~20000000.12345

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier	**O**	**ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X**	**R 1/20**

RXQ.3.6.1 Usage

Segment: **MEA** **PTD~BO Power Factor (MEA~~ZA)**
Position: 160
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments: **1** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes: Relationship between Watts and Volt - amperes necessary to supply electric load
REQUIRED if measured

MEA~~ZA~.95

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**MEA02**	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies ZA Power Factor	**O ID 1/3**
Must Use	**MEA03**	**739**	**Measurement Value** The value of the measurement	**X R 1/20**

RXQ.3.6.1 Usage

Segment: **PTD** **Interval Detail (PTD~PM)**
Position: 010
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of detail information relating to the transfer/resale of a product and provide identifying data
Syntax Notes: **1** If either PTD02 or PTD03 is present, then the other is required.
2 If either PTD04 or PTD05 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PTD = PM (Interval Detail)
REQUIRED when sending interval details. One PTD~PM loop is required for each meter channel for each unit of measure. Demand is not reported in the PTD~PM loop. This is the lowest level of detail.
PTD~PM~~~MG~1234568MG

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PTD01**	**521**	**Product Transfer Type Code**	**M ID 2/2**
			Code identifying the type of product transfer PM Physical Meter Information Interval Detail	
Must Use	**PTD04**	**128**	**Reference Identification Qualifier**	**X ID 2/3**
			Code qualifying the Reference Identification MG Meter Number	
Must Use	**PTD05**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Meter Number Meter numbers will contain only uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded, and significant leading and trailing zeros that are part of the meter number must be present.	

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~PM Service Period Start Date (DTM~150)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period Start Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in second of two meter exchange PTD loops

DTM~150~20010101

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~PM Service Period End Date (DTM~151)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. Service Period Start Date for Month 2 must equal the Service Period End Date for Month 1, otherwise a gap in data exists. Example:
Month 1 DTM~150~20010501 DTM~151~20010601
Month 2 DTM~150~20010601 DTM~151~20010701
REQUIRED except in first of two meter exchange PTD loops

DTM~151~20010131

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 151 Service Period End	**M**	**ID 3/3**
Must Use	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~PM Exchange Date (DTM~514)**
Position: 020
Loop: PTD Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Meter exchange date. There will be two PTD loops when a meter is exchanged.
-The first PTD includes the Service Period Start Date and the Meter Exchange Date
-The second PTD includes the Meter Exchange Date and the Service Period End Date
REQUIRED when a meter is exchanged and the meter agent does not change.

DTM~514~19990201 - 1st PTD
DTM~150~19990214

DTM~514~19990214 - 2nd PTD
DTM~151~19990228

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 514 Transferred		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		
Must Use	**DTM03**	**337**	**Time**	**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59). For this transaction, since X12 does not allow 2400 for time, 2359 will be used to indicate midnight. For example, midnight between October 15th and October 16th will be reflected as 2359 of October 15th.		
Used	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow AT Alaska Time CT Central Time		

RXQ.3.6.1 Usage

ET	Eastern Time
GM	Greenwich Mean Time
MT	Mountain Time
PT	Pacific Time
TT	Atlantic Time

RXQ.3.6.1 Usage

Segment: **REF** **PTD~PM Channel Number (REF~6W)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Channel Number
REQUIRED

REF~6W~2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification 6W Sequence Number		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.1 Usage

Segment: **REF** **PTD~PM Meter Type (REF~MT)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Indicates the type of usage that is reported in this PTD loop. Meter type is expressed as a five-character field xxyyy, where:
-xx is the type of consumption and,
-yyy is the metering interval reported by the metering agent

Type of Consumption Valid Values:

-K1: Kilowatt Demand (kW)
-K2: KiloVolt Amperes Reactive Demand (kVAR)
-K3: KiloVolt Amperes Reactive Hour (kVARH)
-K4: KiloVolt Amperes (kVA)
-KH: Kilowatt Hour (kWh)

Metering Interval Reported for Billing Purposes (yyy) Valid Values:

-nnn: Number of minutes from 001 to 999
-DAY: Daily
MON:Monthly
REQUIRED

REF~MT~KHMON

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification MT Meter Ticket Number	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.1 Usage

Segment: **REF** **PTD~PM Meter Role (REF~JH)**
Position: 030
Loop: PTD Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Role defines whether to add, subtract or do neither with the value and the summarized total
REQUIRED

REF~JH~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			JH — Tag		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			A — Additive: This consumption must be added to the summarized total		
			I — Ignore: This consumption did not contribute to the summarized total (do nothing)		
			S — Subtractive: This consumption must be subtracted from the summarized total		

RXQ.3.6.1 Usage

Segment: **QTY** **PTD~PM Quantity**
Position: 110
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: **1** At least one of QTY02 or QTY04 is required.
2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: **1** QTY04 is used when the quantity is non-numeric.
Comments:
Notes: Quantity is the total measured interval consumption for the billable period including all billable adjustments applicable, e.g., transformer loss factor and the meter multiplier. The quantity in the QTY02 has not been adjusted for any additive and/or subtractive usage.

Quantity is sent with a minimum of two digits and a maximum of four digits to the right of the decimal point, e.g., 525.15; 567.1375, etc., while adhering to the ANSI rules for providing Real numbers. For instance, if the quantity reported is:

525	then the QTY02 is reported as	525
525.1275	then the QTY02 is reported as	525.1275
525.12	then the QTY02 is reported as	525.12
525.10	then the QTY02 is reported as	525.1
0	then the QTY02 is reported as	0

Leading zeros are suppressed and trailing zeros are truncated. Please refer to ANSI ASC X12 Version 004010 for further information on ANSI data elements, segments and loop usage and requirements.
REQUIRED

QTY~QD~22348

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**QTY01**	**673**	**Quantity Qualifier**	**M ID 2/2**
			Code specifying the type of quantity	
			KA Estimated	
			Quantity is estimated	
			QD Quantity Delivered	
			Quantity is actual	
Must Use	**QTY02**	**380**	**Quantity**	**X R 1/15**
			Numeric value of quantity	

RXQ.3.6.1 Usage

Segment: **DTM** **PTD~PM Interval End Time (DTM~194)**
Position: 210
Loop: QTY Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: HHMM timestamp to define interval
REQUIRED

DTM~194~20010115~1500~ET

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M ID 3/3**
			Code specifying type of date or time, or both date and time	
			194 Period End The date/time of the end of the interval	
Must Use	**DTM02**	**373**	**Date**	**M DT 8/8**
			Date expressed as CCYYMMDD	
Must Use	**DTM03**	**337**	**Time**	**M TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) HHMM, where H = Hours (00 to 23) and M = Minutes (00 to 59). Since X12 does not allow 2400 for time, 2359 will be used to indicate 'midnight'	
Must Use	**DTM04**	**623**	**Time Code**	**M ID 2/2**
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow The time code defines the time zone, including daylight savings time	
			AD Alaska Daylight Time AS Alaska Standard Time AT Alaska Time CD Central Daylight Time CS Central Standard Time CT Central Time ED Eastern Daylight Time ES Eastern Standard Time	

RXQ.3.6.1 Usage

ET	Eastern Time
GM	Greenwich Mean Time
MD	Mountain Daylight Time
MS	Mountain Standard Time
MT	Mountain Time
PD	Pacific Daylight Time
PS	Pacific Standard Time
PT	Pacific Time
TD	Atlantic Daylight Time
TS	Atlantic Standard Time
TT	Atlantic Time
UT	Universal Time Coordinate

RXQ.3.6.1 Usage

Segment: **SE** **Transaction Set Trailer**
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED

SE~42~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

[END X12 MAPPING GUIDELINES FOR THE 867]

RXQ.3.6.2: CONSOLIDATED BILL-READY INVOICE & SINGLE RETAIL BILL OPTION INVOICE

Technical Implementation Of Business Process

Related MBP's: RXQ..1.3.3.1, RXQ.3.3.4.2 through 1.3.4.12

The Consolidated Billing Bill-Ready Invoice transaction is the communication used by the non-billing party to transmit the billing components and amounts of charges to the billing party for presentation on the customer's bill. The billing party sends an invoice to the customer that displays both the billing and non-billing parties' charges.

The types of invoice transactions supported by Consolidated Bill-Ready Invoice in retail energy markets include:

- Monthly Invoice Original
- Monthly Invoice Cancel
- Final Invoice

The **Sender** and **Receiver** of the transaction is either the distribution company or the supplier/retailer.

The **Invoice Number ID (InvID)** identifies the invoice. This is a unique number assigned by the originator of the transaction.

The Non-Billing Party echoes in the invoice transaction the specific **Usage ID** originally transmitted with the usage information. The UUID links the usage, invoice and payment transactions together for tracking purposes.

Each Invoice Header contains the following:

- **Invoice Date**
- **Invoice ID**
- **Usage ID**
- **Purpose**
- **Final Indicator (when applicable)**
- **Billing Party Name**
- **Billing Party ID**
- **Non-Billing Party Name**
- **Non-Billing Party Entity ID**
- **Non-Billing Party Account ID (when applicable)**
- **Customer Name**
- **Customer ID**
- **BP Customer Previous Account Number**
- **Service Address**
- **Service Type**
- **Party Calculating Bill**
- **Party Sending Bill**
- **Non-Billing Party Rate Code**
- **Non-Billing Party Message to Customer**
- **Service Period Start Date**
- **Service Period End Date**
- **Transaction Date**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

- **Non-Billing Party Current Total Charges.**

Each Invoice can have multiple Charge Detail records. Each Invoice Detail contains the following:

- **Charge/Allowance Line Amount**
- **Charge/Allowance Line Category**
- **Charge/Allowance Credit/Debit Code**
- **Charge Allowance Line Description**
- **Charge Allowance Line Quantity**
- **Charge/Allowance Line Summary**
- **Charge/Allowance Line Unit of Measure.**

Each Single Retailer Billing Option (SRBO) Invoice Detail contains

- **Non-Billing Party Charge/Allowance Rate ID**
- **Non-Billing Party Charge/Allowance Rate Class**
- **Non-Billing Party Charge/Allowance Rate Subclass**

Each Invoice can have multiple Tax Detail records. Each Tax Detail contains the following:

- **Taxes**
- **Taxing Entity.**

Each cancel transaction includes **Purpose Code = Cancel, the UUID** trace number from the original Billing Usage transaction, and the same data found in the original Invoice transaction.

Reissuing an invoice is treated as an original invoice.

Invoice Sections
NAESB Bill Ready invoice standards support Account charges and taxes, including for multiple service periods. Rate charges and taxes are only supported in Single Retail Bill Option scenarios.

Budget Billing and Payment Plans
There is no current support for Budget Billing or Payment Plans.

Usage ID Cross Reference
There is a cross reference between billing related documents.

- 867 – BPT02 – This document establishes the cross reference number.
- 810 – BIG05 – This document must have the cross reference number from the respective 867.
- 820 – REF6O (letter ‘O’, not zero) – When using Assumed Receivables mode, the 820 to the non-billing party must also include the cross reference number from 867/810 document.

Cancelling Invoices
The sender of an invoice is always responsible for canceling the invoice. There are no ‘reversals’ in NAESB standards.

Sender Requirements for Canceling Bill-Ready Invoices

- Sender of original invoice must send cancel (e.g. 810 with BIG08 = “01”). Receivers do not cancel invoices.

RXQ.3.6.2 Bill-Ready & SRBO Invoice

- The service period dates must match original bill period
- The cross-reference number (BIG05) must be provided on the cancel.
- If restating the invoice, the sender will send a new original invoice
- If sender wants charges on bill, they must send invoice in bill window

Receiver Requirements for Canceled Bill-Ready Invoices

- Billing Parties will calculate Non-Billing Party charges at the close of the bill window based on current original invoices that were not cancelled.
- If using batches, Billing Parties will process all inbound invoices prior to calculating Non-Billing Party charges to catch any last minute invoices.
- Billing Parties will accept original and cancel invoices at anytime, including in and out of bill windows.
- Amounts from Invoices that are cancelled after already being placed on the bill will show as a line item on the bill.

Missed Bill Windows

If the Non-Billing Party does not get the invoice to the Billing Party in time for the charges to be added to the bill, the Billing Party will queue received invoices until the next bill window opens.

Missed Bill Window and Switch Overlap

If there is a Customer switch and the previous Non-Billing Party missed the last billing window, the old Non-Billing Party must bill the Customer directly for their charges.

Bill Ready - Cancel / Rebill due to usage

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF~OI
Utility sends usage	00	111				
Supplier sends invoice	00			301	111	
Utility cancels usage	01	112	111			
Supplier cancels original invoice	01			302	**111**	301
Utility sends restated usage	00	113				
Supplier sends restated invoice	00			303	113	

Bill Ready - Supplier Initiated cancellation (not related to usage)

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF~OI
Utility sends usage	00	111				
Supplier sends invoice	00			301	111	
Supplier cancels invoice	01			302	**111**	301
Supplier sends restated invoice	00			303	111	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Sample Paper Transaction

Invoice Header	
Invoice Date:	20040413
Invoice Number:	04132004TR4877
Usage Cross-Reference Number:	04132004MR8392
Invoice Purpose:	Original
Final Invoice Indicator:	No
Billing Party (BP) Name:	Distribute-It Inc.
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Inc.
NBP Entity ID:	546897321
BP Customer Name:	Use-It Inc.
Customer ID:	8473937UHFTR41304
BP Customer Previous Account Number or SDID:	
Service Type:	Electric
NBP Rate Code:	NBPR1
Service Period Start Date:	20040313
Service Period End Date:	20040412

Line Item Charges and Allowances						
Indicator	**Category**	**Unit**	**Qty**	**Rate**	**Amt**	**Description**
Charge	GEN002	KWh	500	$0.100	$50.00	Current Basic Generation - Consumption
Charge	DMD009	KW	20	$1.000	$20.00	Current Basic Generation - Peak Demand
Charge	LPC001		1	$20.00	$20.00	Late Payment Charge
Allowance	ADJ002		1	$10.00	$10.00	Adjustment to Last Bill
Charge	BAS001		1	$0.750	$0.75	Miscellaneous: Receivables Charge
Total of NBP Line Item Charges:					$79.25	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Data Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Invoice Date	Date this transaction was created by the sender's application system.	M		
Invoice ID	Unique number identifying this transaction, created by the originator of this transaction	M		
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancellation]
Final Indicator	Indicates whether this is a final bill	M		[Yes, No]
Original Invoice ID	The unique number assigned to the original document, used only to cancel the original. When a transaction is cancelled, the Original Invoice ID is used as a cross-reference.	C	Send when Purpose is ‘Reversal’ or ‘Cancellation’	
Current Total Charges	Sum of all current charges	M		
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Submitter/Receiver Code	Code that defines if a party is the submitter or the receiver of the invoice	M		
Service Period Start Date	Previous Meter Reading Date	M		
Service Period End Date	Current Meter Reading Date	M		
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Customer Name	Customer Name	M		
Service Location Address	Service Location Street Address	RBC		
Non-Billing Party Message To Customer	A text message the Non-Billing Party wants to appear on the Customer’s bill	RBC		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	BC		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Old Customer ID used if Billing Party changes Customer ID	BC		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Data Elem. Name	Description	Use	Condition	Comments [Options]
Party Sending Bill	Identifies party sending the bill to the Customer	RBC		[Distribution Company, DUAL, Supplier]
Party Calculating Bill	Identifies party calculating the Non-Billing Party Charges	RBC		[Distribution Company, DUAL, Supplier]
Currency	Code that defines currency	M		[American $, Canadian $, pesos]
Rate Class	Non-Billing Party Rate Class	RBC		
Rate Subclass	Non-Billing Party Rate Subclass	RBC		
Chg/Allow Summary Level	Code that defines if the data is summarized by Account, Rate, SDID, Un-metered, or Meter.	M		[Account, Rate, SDID, Un-metered, Metered]
Chg/Allow Credit/Debit Code	Identifies if Line Item is allowance/credit, charge/debit or no charge	M		Allowance, Charge, No Charge
Chg/Allow Category	Code for the class of charge	M		[Adjustment, Budget, Late Payment, Miscellaneous, Payment Plan Charge, etc.]
Chg/Allow Amount	Dollar amount for the credit/debit	M		
Chg/Allow Rate	Non-Billing Party Rate	RBC		
Chg/Allow Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Each, Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]
Chg/Allow Quantity	Usage	M		
Chg/Allow Description	Line Item text that will print on the customer's bill	RBC		
Tax Type	Tax Type	RBC		
Tax Amount	A taxable amount transmitted to the non-taxing Party	RBC		
Tax Percent	Tax Percent	RBC		
Taxing Jurisdiction	Identifies the taxing jurisdiction	RBC		
Tax Inclusion Indicator	Include or exclude from total charges	RBC		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Charge/Allowance Credit/Debit Code	Allowance	Allowance	A
Charge/Allowance Line Credit/Debit Code	Charge	Charge	C
Charge/Allowance Line Credit/Debit Code	No	No Allowance or Charge	N
Charge/Allowance Line Unit of Measure Code	British Thermal Units	British Thermal Units	BTU
Charge/Allowance Line Unit of Measure Code	Each	Each	EA
Charge/Allowance Line Unit of Measure Code	Hundred Cubic Feet	Hundred Cubic Feet	CCF
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes	Kilovolt Amperes	K4
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes Reactive Hour	Kilovolt Amperes Reactive Hour	K3
Charge/Allowance Line Unit of Measure Code	kiloWatt demand	potential power load measured at predetermined intervals	K1
Charge/Allowance Line Unit of Measure Code	Kilowatt Hour	Kilowatt Hour	KH
Charge/Allowance Line Unit of Measure Code	KVAR Kilovolt Amperes Reactive Demand	KVAR Kilovolt Amperes Reactive Demand	K2
Charge/Allowance Line Unit of Measure Code	Months	Months	MO
Charge/Allowance Line Unit of Measure Code	Therms	Therms	THEMS
Charge/Allowance Line Unit of Measure Code	Thousand Cubic Feet	Thousand Cubic Feet	MCF
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/AllowanceLine Credit/Debit Code	Allowance	Allowance	A
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Final Indicator	No	Not the final bill	[blank]
Final Indicator	Yes	Identifies this bill as the final bill	F
Party Calculating Bill	Distribution Company	Distribution Co calculates charges	LDC
Party Calculating Bill	Dual	Each party calculates own charges	DUAL
Party Calculating Bill	Retail Supplier	Supplier calculates charges	ESP
Party Sending Bill	Distribution Company	Distribution Company sends bill to Customer	LDC
Party Sending Bill	Dual	Both parties send bill to customer	DUAL
Party Sending Bill	Retail Supplier	Supplier sends bill to Customer	ESP
Transaction Purpose	Cancellation	Cancellation	01
Transaction Purpose	Original	Original	00

RXQ.3.6.2 Bill-Ready & SRBO Invoice

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??placeholder; delete after inserting from RTF]

810 NAESB RXQ.3.6.2 Invoice: Bill Ready & Single Retail Bill Option

Functional Group ID=IN

Introduction:

This NAESB guideline contains the format and establishes the data contents of the Bill Ready (BR) and Single Retail Bill Option (SRBO) Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The Bill Ready and SRBO transaction set is used to communicate invoice details between Suppliers and Distribution Companies in a competitive retail marketplace where one party is acting as the 'Billing Party' and the second party is acting as the 'Non-Billing Party'. The BR/SRBO Invoice enables the Non-Billing Party to communicate charges and information that should be placed on the bill generated by the Billing Party.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	030	NTE	Non-Billing Party Required Messages (NTE~ADD)	O	2		
	030	NTE	Non-Billing Party Regulatory Messages (NTE~OTH)	O	2		
	050	REF	Non-Billing Party Account ID (REF~11)	C	1		
	050	REF	Original Invoice ID (REF~OI)	C	1		
M	050	REF	Customer ID (REF~12/Q5)	M	1		
	050	REF	Old Customer ID (REF~45)	C	1		
			LOOP ID - N1			1	
M	070	N1	Name: Distribution Company (N1~8S)	M	1		
			LOOP ID - N1			1	
M	070	N1	Name: Supplier (N1~SJ)	M	1		
	130	ITD	Terms of Sale/Deferred Terms of Sale	C	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			1	
M	010	IT1	Customer/Account-Level Charges (IT109=ACCOUNT)	M	1		
M	150	DTM	Service Period Start Date (DTM~150)	M	1		
M	150	DTM	Service Period End Date (DTM~151)	M	1		
			LOOP ID - SLN			1000	
M	200	SLN	Subline Item Detail	M	1		
M	230	SAC	Invoice Charge or Allowance (SAC)	M	25		
	237	TXI	Tax Information	C	10		
			LOOP ID - IT1			200000	
M	010	IT1	Rate-Level Charges (IT109=RATE)	M	1		
	120	REF	Distribution Company Rate Class (REF~NH)	C	1		
	120	REF	Distribution Company Rate Subclass (REF~PR)	C	1		

M	150	DTM	Service Period Start Date (DTM~150)	M	1		
M	150	DTM	Service Period End Date (DTM~151)	M	1		
			LOOP ID - SLN			1000	
M	200	SLN	Subline Item Detail	M	1		
M	230	SAC	Invoice Charge or Allowance (SAC)	M	25		
	237	TXI	Tax Information	C	10		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
M	070	CTT	Transaction Totals	M	1		n1
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~810~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
			Code uniquely identifying a Transaction Set 810 Invoice		
Must Use	**ST02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **BIG** **Beginning Segment for Invoice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
1 BIG01 is the invoice issue date.
2 BIG03 is the date assigned by the purchaser to purchase order.
3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
Comments:
1 BIG07 is used only to further define the type of invoice when needed.
Notes: REQUIRED

BIG~20010201~123567890120010201~~~2048392934504~~PR~00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BIG01**	**373**	**Date** Date expressed as CCYYMMDD Date that the data was processed by the sender's application system.	**M DT 8/8**
Must Use	**BIG02**	**76**	**Invoice Number** Identifying number assigned by issuer A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This number will be returned in the RMR02 of the 820 and/or the OTI03 of the 824. Transaction reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9), dashes ('-'), or periods ('.'). All other punctuation (spaces, commas, etc.) must be excluded.	**M AN 1/22**
Dep	**BIG05**	**328**	**Release Number** Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Monthly Invoice: The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810 and in the RMR loop REF~6O of the 820. For a cancelled invoice the cross-reference will be made to the original meter read BPT02, not the cancelled meter read BPT02 transaction.	**O AN 1/30**
Must Use	**BIG07**	**640**	**Transaction Type Code** Code specifying the type of transaction FB Final Bill Final invoice sent for this Customer from the Non-Billing Party. ME Memorandum Monthly invoice	**M ID 2/2**
Must Use	**BIG08**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set	**M ID 2/2**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

00	Original
01	Cancellation Cancel the entire invoice/transaction cross-referenced in REF~OI

Segment: **NTE** **Non-Billing Party Required Messages (NTE~ADD)**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes: Messages and notices from Non-Billing Party
OPTIONAL

NTE~ADD~NBP MESSAGES
NTE~ADD~LINE TWO OF MESSAGES

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**NTE01**	**363**	**Note Reference Code**	**O**	**ID 3/3**
			Code identifying the functional area or purpose for which the note applies		
			ADD — Additional Information		
Must Use	**NTE02**	**352**	**Description**	**M**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		

Segment: **NTE** **Non-Billing Party Regulatory Messages (NTE~OTH)**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes: Regulatory messages and notices from Non-Billing Party.
OPTIONAL

NTE~OTH~REGULATORY REQUIRED MESSAGES OR NOTICES
NTE~OTH~LINE TWO OF REGULATORY MESSAGES

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies OTH Other Instructions	**O ID 3/3**
Must Use	**NTE02**	**352**	**Description** A free-form description to clarify the related data elements and their content	**M AN 1/80**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment:	**REF** **Non-Billing Party Account ID (REF~11)**
Position:	050
Loop:	
Level:	Heading
Usage:	Conditional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party OPTIONAL REF~11~123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment:	**REF Original Invoice ID (REF~OI)**
Position:	050
Loop:	
Level:	Heading
Usage:	Conditional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Cross-reference to Invoice ID from original invoice; used for cancel REQUIRED on a cancel invoice transaction (BIG08=01) REF~OI~123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification OI Original Invoice Number		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **REF** **Customer ID (REF~12/Q5)**
Position: 050
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in marketplace. Governing documents define whether REF~12 or REF~Q5 is required.

- REF~12 uses REF02 for ID; usually LDC Account Number
- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~1011111123456780
REF~Q5~~10111111234567890ABCDEFGHIJKL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			12 — Billing Account Account number under which billing is rendered Account number ID; sent in REF02	
			Q5 — Property Control Number Service Delivery ID (e.g. ESIID); sent in REF03	
Used	**REF02**	**127**	**Customer Account ID; use when REF01=12**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Used	**REF03**	**352**	**Customer SD ID; use when REF01=Q5**	**X AN 1/80**
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **REF** **Old Customer ID (REF~45)**
Position: 050
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED when Customer ID has changed in last 45 days

REF~45~1011111123456780

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed	**M ID 2/3**
Used	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes:
Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			8S — Consumer Service Provider (CSP)		
Must Use	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Distribution Company Name		
Must Use	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Distribution Company Entity ID		
Must Use	N106	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			40 — Receiver		
			41 — Submitter		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Supplier Name and Entity ID
REQUIRED

N1~SJ~SUPPLY-IT INC.~9~007909422CRN1~~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N101	98	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			SJ — Service Provider Supplier		
Must Use	N102	93	**Name**	**X**	**AN 1/60**
			Free-form name Supplier Name		
Must Use	N103	66	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code Supplier Entity ID		
Must Use	N106	98	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			40 — Receiver		
			41 — Submitter		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **ITD** **Terms of Sale/Deferred Terms of Sale**
Position: 130
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify terms of sale
Syntax Notes:
1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes: **1** ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments: **1** If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
Notes: Date payment is due to the Non-Billing Party in a Single Retail Bill Option marketplace (e.g. ERCOT)
REQUIRED for Single Retail Bill Option

ITD~~~~~~20010215

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ITD06**	**446**	**Terms Net Due Date**	**O DT 8/8**
			Date when total invoice amount becomes due expressed in format CCYYMMDD Payment due date	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **IT1** **Customer/Account-Level Charges (IT109=ACCOUNT)**
Position: 010
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:
1 If any of IT102 IT103 or IT104 is present, then all are required.
2 If either IT106 or IT107 is present, then the other is required.
3 If either IT108 or IT109 is present, then the other is required.
4 If either IT110 or IT111 is present, then the other is required.
5 If either IT112 or IT113 is present, then the other is required.
6 If either IT114 or IT115 is present, then the other is required.
7 If either IT116 or IT117 is present, then the other is required.
8 If either IT118 or IT119 is present, then the other is required.
9 If either IT120 or IT121 is present, then the other is required.
10 If either IT122 or IT123 is present, then the other is required.
11 If either IT124 or IT125 is present, then the other is required.
Semantic Notes:
1 IT101 is the purchase order line item identification.
Comments:
1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: The Account IT1 loop (IT109=ACCOUNT) is used for charges at the Customer level. Only one IT1 loop is provided for the entire account: there may be *ONLY ONE* IT1 ACCOUNT loop per NAESB 810 transaction.
REQUIRED

IT1~1~~~~~SV~ELECTRIC~C3~ACCOUNT
IT1~1~~~~~SV~GAS~C3~ACCOUNT

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**IT101**	**350**	**Assigned Identification**	**M AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	**IT106**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV Service Rendered	
Must Use	**IT107**	**234**	**Product/Service ID**	**M AN 1/48**
			Identifying number for a product or service	
			Only one commodity (Electric or Gas) for each 810 transaction	
			ELECTRIC	
			GAS	
Must Use	**IT108**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			C3 Classification	
Must	**IT109**	**234**	**Product/Service ID**	**M AN 1/48**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Use

Identifying number for a product or service

ACCOUNT Charges/Taxes at an Account level

Segment: **DTM Service Period Start Date (DTM~150)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Service Period Start Date. The full service period should match the applicable PTD loops from the 867
REQUIRED

DTM~150~20010106

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **DTM** **Service Period End Date (DTM~151)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. The full service period should match the applicable PTD loops from the 867
REQUIRED

DTM~151~20010206

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **SLN** **Subline Item Detail**
Position: 200
Loop: SLN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:
SLN is used to group charges together
REQUIRED

SLN~1~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SLN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Used as a loop counter	**M AN 1/20**
Must Use	**SLN03**	**662**	**Relationship Code** Code indicating the relationship between entities A Add	**M ID 1/1**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **SAC** **Invoice Charge or Allowance (SAC)**
Position: 230
Loop: SLN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:
1. At least one of SAC02 or SAC03 is required.
2. If either SAC03 or SAC04 is present, then the other is required.
3. If either SAC06 or SAC07 is present, then the other is required.
4. If either SAC09 or SAC10 is present, then the other is required.
5. If SAC11 is present, then SAC10 is required.
6. If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. If SAC14 is present, then SAC13 is required.
8. If SAC16 is present, then SAC15 is required.

Semantic Notes:
1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
   If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3. SAC08 is the allowance or charge rate per unit.
4. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
   SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7. SAC16 is used to identify the language being used in SAC15.

Comments:
1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Invoice line item charge or allowance.
REQUIRED

SAC~C~~EU~DIS001~2400~~~.016~KH~1500~~~~~DUOS
SAC~C~~EU~LPC001~500~~~100.00~EA~.05
SAC~C~~EU~INT001~500~~~100.00~EA~.05
SAC~C~~EU~INT003~-500~~~100.00~EA~-.05
SAC~C~~EU~MSC003~2500~~~1~EA~25.00~~~~~METER SEAL REPLACEMENT CHARGE

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**	M ID 1/1

Code which indicates an allowance or charge for the service specified

A	Allowance
C	Charge
N	No Allowance or Charge Ignore the amount in the SAC05 when summing the invoice total

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Must Use	**SAC03**	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values EU — Electric Utilities GU — Natural Gas Utilities		
Must Use	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge Refer to governing documents of marketplace for a complete list of valid codes		
Must Use	**SAC05**	**610**	**Amount**	**O**	**N2 1/15**
			Monetary amount This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05		
Must Use	**SAC08**	**118**	**Rate**	**O**	**R 1/9**
			Rate expressed in the standard monetary denomination for the currency specified This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.		
Must Use	**SAC09**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to governing documents of marketplace		

4A	Bobbin A cylinder or spindle on which yarn or thread is wound ERCOT 4CP Kilowatt Demand
4B	Cap Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance ERCOT 4CP KVA Demand
4C	Centistokes 1 * 10/-6 square meters/second ERCOT 4CP Power Factor Adjusted
4D	Curie A unit of radioactivity equal to 3.7 * 10/10 disintegrations per second ERCOT 4CP KVAR Demand
99	Watt
AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce
DA	Days
DO	Dollars, U.S.
EA	Each
HH	Hundred Cubic Feet ccf
K1	Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand

K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K7	Kilowatt
KH	Kilowatt Hour
MO	Months
NA	Milligrams per Kilogram
	ERCOT NCP Kilowatt Demand
NB	Barge
	ERCOT NCP KVA Demand
NC	Car
	ERCOT NCP Power Factor Adjusted
ND	Net Barrels
	ERCOT NCP KVAR Demand
RA	Rack
	ERCOT Ratchet Kilowatt Demand
RB	Radian
	ERCOT Ratchet KVA Demand
RC	Rod (area) - 16.25 Square Yards
	ERCOT Ratchet Power Factor Adjusted
RD	Rod (length) - 5.5 Yards
	ERCOT Ratchet KVAR Demand
TD	Therms
TZ	Thousand Cubic Feet

Must Use	**SAC10**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity Consumption or Quantity This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.		
Used	**SAC11**	**380**	**Quantity**	**O**	**R 1/15**
			Numeric value of quantity		
Used	**SAC13**	**127**	**Print Sequencing Number**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Used to assign a print sequencing number to determine the order that the line item will appear on the bill.		
Dep	**SAC15**	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		

Segment: **TXI** **Tax Information**
Position: 237
Loop: SLN Mandatory
Level: Detail
Usage: Conditional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:
1 At least one of TXI02 TXI03 or TXI06 is required.
2 If either TXI04 or TXI05 is present, then the other is required.
3 If TXI08 is present, then TXI03 is required.
Semantic Notes:
1 TXI02 is the monetary amount of the tax.
2 TXI03 is the tax percent expressed as a decimal.
3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
Notes: REQUIRED if taxes are applicable to the preceding SAC charge.

TXI~FR~2.5~~~~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**TXI01**	**963**	**Tax Type Code**	**M**	**ID 2/2**
			Code specifying the type of tax		
			CA — City Tax Service Tax imposed by City		
			CT — County Tax		
			FR — Franchise Tax		
			GR — Gross Receipts Tax		
			LO — Local Tax (Not Sales Tax) Service tax imposed on a local level		
			LS — State and Local Sales Tax		
			ST — State Sales Tax		
Must Use	**TXI02**	**782**	**Monetary Amount**	**X**	**R 1/18**
			Monetary amount Calculated Tax Amount. If negative, this amount must be preceded by a negative sign.		
Used	**TXI04**	**955**	**Tax Jurisdiction Code Qualifier**	**X**	**ID 2/2**
			Code identifying the source of the data used in tax jurisdiction code Refer to 004010 Data Element Dictionary for acceptable code values.		
Used	**TXI05**	**956**	**Tax Jurisdiction Code**	**X**	**AN 1/10**
			Code identifying the taxing jurisdiction		
Must Use	**TXI07**	**662**	**Relationship Code**	**O**	**ID 1/1**
			Code indicating the relationship between entities		
			A — Add The amount in the TXI02 is included when summing the invoice total.		

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **IT1** **Rate-Level Charges (IT109=RATE)**
Position: 010
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax Notes:
- **1** If any of IT102 IT103 or IT104 is present, then all are required.
- **2** If either IT106 or IT107 is present, then the other is required.
- **3** If either IT108 or IT109 is present, then the other is required.
- **4** If either IT110 or IT111 is present, then the other is required.
- **5** If either IT112 or IT113 is present, then the other is required.
- **6** If either IT114 or IT115 is present, then the other is required.
- **7** If either IT116 or IT117 is present, then the other is required.
- **8** If either IT118 or IT119 is present, then the other is required.
- **9** If either IT120 or IT121 is present, then the other is required.
- **10** If either IT122 or IT123 is present, then the other is required.
- **11** If either IT124 or IT125 is present, then the other is required.

Semantic Notes:
- **1** IT101 is the purchase order line item identification.

Comments:
- **1** Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- **2** IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: The Rate IT1 loop is used for rate-level charges. Multiple Rate IT1 Loops may be sent for each 810, and are differentiated by a combination of the IT109 element and the associated REF and DTM segments.
REQUIRED

IT1~1~~~~~SV~ELECTRIC~C3~ACCOUNT
IT1~1~~~~~SV~GAS~C3~ACCOUNT

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**IT101**	**350**	**Assigned Identification**	**M AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set	
Must Use	**IT106**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	
Must Use	**IT107**	**234**	**Product/Service ID**	**M AN 1/48**
			Identifying number for a product or service Only one commodity (Electric or Gas) for each 810 transaction ELECTRIC GAS	
Must Use	**IT108**	**235**	**Product/Service ID Qualifier**	**M ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	
Must	**IT109**	**234**	**Product/Service ID**	**M AN 1/48**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Use

Identifying number for a product or service

ACCOUNT	Charges/Taxes at an Account level
	Account equates to a Customer as defined by NAESB standards
RATE	Charges/Taxes at a Rate Level

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **REF** **Distribution Company Rate Class (REF~NH)**
Position: 120
Loop: IT1 Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Distribution Company Rate Class
REQUIRED for Rate-level charges in Single Retail Bill Option

REF~NH~RS1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification NH Rate Card Number	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **REF** **Distribution Company Rate Subclass (REF~PR)**
Position: 120
Loop: IT1 Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Distribution Company Rate Subclass
REQUIRED for Rate-level charges in Single Retail Bill Option

REF~PR~RSHT

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/3**
Must Use	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Distribution Company Rate Subclass	**X AN 1/30**

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **DTM** **Service Period Start Date (DTM~150)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period Start Date. The full service period should match the applicable PTD loops from the 867
REQUIRED

DTM~150~20010106

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

Segment: **DTM Service Period End Date (DTM~151)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Service Period End Date. The full service period should match the applicable PTD loops from the 867
REQUIRED

DTM~151~20010206

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

Segment: **SLN** **Subline Item Detail**
Position: 200
Loop: SLN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify product subline detail item data

Syntax Notes:

1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:

1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

SLN is used to group charges together
REQUIRED

SLN~1~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SLN01**	**350**	**Assigned Identification**	**M AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set Used as a loop counter	
Must Use	**SLN03**	**662**	**Relationship Code**	**M ID 1/1**
			Code indicating the relationship between entities A Add	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment: **SAC** **Invoice Charge or Allowance (SAC)**
Position: 230
Loop: SLN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:
1 At least one of SAC02 or SAC03 is required.
2 If either SAC03 or SAC04 is present, then the other is required.
3 If either SAC06 or SAC07 is present, then the other is required.
4 If either SAC09 or SAC10 is present, then the other is required.
5 If SAC11 is present, then SAC10 is required.
6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7 If SAC14 is present, then SAC13 is required.
8 If SAC16 is present, then SAC15 is required.

Semantic Notes:
1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3 SAC08 is the allowance or charge rate per unit.
4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7 SAC16 is used to identify the language being used in SAC15.

Comments:
1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Invoice line item charge or allowance.
REQUIRED

SAC~C~~EU~DIS001~2400~~~.016~KH~1500~~~~~DUOS
SAC~C~~EU~LPC001~500~~~100.00~EA~.05
SAC~C~~EU~INT001~500~~~100.00~EA~.05
SAC~C~~EU~INT003~-500~~~100.00~EA~-.05
SAC~C~~EU~MSC003~2500~~~1~EA~25.00~~~~~METER SEAL REPLACEMENT CHARGE

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**	M ID 1/1

Code which indicates an allowance or charge for the service specified

A	Allowance
C	Charge
N	No Allowance or Charge Ignore the amount in the SAC05 when summing the invoice total

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Must Use	**SAC03**	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			EU — Electric Utilities		
			GU — Natural Gas Utilities		
Must Use	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			Refer to governing documents of marketplace for a complete list of valid codes		
Must Use	**SAC05**	**610**	**Amount**	**O**	**N2 1/15**
			Monetary amount		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05		
Must Use	**SAC08**	**118**	**Rate**	**O**	**R 1/9**
			Rate expressed in the standard monetary denomination for the currency specified		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.		
Must Use	**SAC09**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to governing documents of marketplace		

Code	Definition
4A	Bobbin A cylinder or spindle on which yarn or thread is wound ERCOT 4CP Kilowatt Demand
4B	Cap Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance ERCOT 4CP KVA Demand
4C	Centistokes 1 * 10/-6 square meters/second ERCOT 4CP Power Factor Adjusted
4D	Curie A unit of radioactivity equal to 3.7 * 10/10 disintegrations per second ERCOT 4CP KVAR Demand
99	Watt
AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce
DA	Days
DO	Dollars, U.S.
EA	Each
HH	Hundred Cubic Feet ccf
K1	Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand

			K3 Kilovolt Amperes Reactive Hour		
			K4 Kilovolt Amperes		
			K5 Kilovolt Amperes Reactive		
			K7 Kilowatt		
			KH Kilowatt Hour		
			MO Months		
			NA Milligrams per Kilogram ERCOT NCP Kilowatt Demand		
			NB Barge ERCOT NCP KVA Demand		
			NC Car ERCOT NCP Power Factor Adjusted		
			ND Net Barrels ERCOT NCP KVAR Demand		
			RA Rack ERCOT Ratchet Kilowatt Demand		
			RB Radian ERCOT Ratchet KVA Demand		
			RC Rod (area) - 16.25 Square Yards ERCOT Ratchet Power Factor Adjusted		
			RD Rod (length) - 5.5 Yards ERCOT Ratchet KVAR Demand		
			TD Therms		
			TZ Thousand Cubic Feet		
Must Use	**SAC10**	**380**	**Quantity** Numeric value of quantity Consumption or Quantity This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.	**X**	**R 1/15**
Used	**SAC11**	**380**	**Quantity** Numeric value of quantity	**O**	**R 1/15**
Used	**SAC13**	**127**	**Print Sequencing Number** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Used to assign a print sequencing number to determine the order that the line item will appear on the bill.	**X**	**AN 1/30**
Dep	**SAC15**	**352**	**Description** A free-form description to clarify the related data elements and their content	**X**	**AN 1/80**

Segment:	**TXI** **Tax Information**
Position:	237
Loop:	SLN Mandatory
Level:	Detail
Usage:	Conditional
Max Use:	10
Purpose:	To specify tax information
Syntax Notes:	**1** At least one of TXI02 TXI03 or TXI06 is required.
	2 If either TXI04 or TXI05 is present, then the other is required.
	3 If TXI08 is present, then TXI03 is required.
Semantic Notes:	**1** TXI02 is the monetary amount of the tax.
	2 TXI03 is the tax percent expressed as a decimal.
	3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:	
Notes:	REQUIRED if taxes are applicable to the preceding SAC charge. TXI~FR~2.5~~~~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**TXI01**	**963**	**Tax Type Code**	**M**	**ID 2/2**
			Code specifying the type of tax		
			CA — City Tax Service Tax imposed by City		
			CT — County Tax		
			FR — Franchise Tax		
			GR — Gross Receipts Tax		
			LO — Local Tax (Not Sales Tax) Service tax imposed on a local level		
			LS — State and Local Sales Tax		
			ST — State Sales Tax		
Must Use	**TXI02**	**782**	**Monetary Amount**	**X**	**R 1/18**
			Monetary amount Calculated Tax Amount. If negative, this amount must be preceded by a negative sign.		
Used	**TXI04**	**955**	**Tax Jurisdiction Code Qualifier**	**X**	**ID 2/2**
			Code identifying the source of the data used in tax jurisdiction code Refer to 004010 Data Element Dictionary for acceptable code values.		
Used	**TXI05**	**956**	**Tax Jurisdiction Code**	**X**	**AN 1/10**
			Code identifying the taxing jurisdiction		
Must Use	**TXI07**	**662**	**Relationship Code**	**O**	**ID 1/1**
			Code indicating the relationship between entities		
			A — Add The amount in the TXI02 is included when summing the invoice total.		

Segment: **TDS** **Total Monetary Value Summary**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:
1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2 TDS02 indicates the amount upon which the terms discount amount is calculated.
3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4 TDS04 indicates the total amount of terms discount.
Comments:
1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.
Notes: Total amount due for this invoice, equals the algebraic sum of the amounts in the TXI02 and SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the TXI07 or SAC01.
REQUIRED

TDS~19875 ($198.75 since the decimal is implied)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**TDS01**	**610**	**Amount**	**M N2 1/15**
			Monetary amount If negative, this amount must be preceded by a negative sign. Note this is an implied decimal field: do not send the decimal point	

Segment: **CTT** **Transaction Totals**
Position: 070
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: REQUIRED

CTT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**CTT01**	**354**	**Number of Line Items**	**M N0 1/6**
			Total number of line items in the transaction set	
			The number of IT1 segments.	

RXQ.3.6.2 Bill-Ready & SRBO Invoice

Segment:	**SE Transaction Set Trailer**
Position:	080
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:	
Semantic Notes:	
Comments:	**1** SE is the last segment of each transaction set.
Notes:	REQUIRED SE~35~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**SE01**	**96**	**Number of Included Segments**	**M**	**N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments		
Must Use	**SE02**	**329**	**Transaction Set Control Number**	**M**	**AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

[END X12 MAPPING GUIDELINES FOR BILL-READY INVOICE]

RXQ.3.6.3: CONSOLIDATED RATE-READY INVOICE

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.5.1 through 3.3.5.6

The Rate Ready Invoice transaction is used when billing data is transmitted from the Billing Party to the Non-Billing Party in the form of an invoice that contains individual Customer bill components and their corresponding amounts for both parties.

The Billing Party is responsible for calculating charges and issuing bills to the retail customer on behalf of the Non-Billing Party.

The Billing Party sends the Rate Ready invoice transaction to the Non-Billing Party as notification that a Customer bill has been calculated and rendered.

The **Sender** and **Receiver** of the Consolidated Billing Rate Ready transaction is either a distribution company (LDC) or a supplier / retailer.

The Rate Ready Invoice transaction includes the specific **Usage ID** originally transmitted with the usage information. The UUID links the usage, invoice and payment transactions together for tracking purposes.

The Rate Ready Invoice transaction also notifies the Non-Billing Party of data concerning the Customer accounts that it has recently billed on behalf of the Non-Billing Party. Accordingly, the exchange of billing data between the Billing Party and Non Billing Party under this scenario is to have the Billing Party send the Non-Billing Party "after-the-fact information" concerning the Customer accounts that it has recently billed on behalf of the Non-Billing Party.

Each original Consolidated Billing Rate Ready transaction header contains

- **Invoice Date**
- **Invoice Number**
- **Usage ID**
- **Invoice Purpose**
- **Billing Final Indicator**
- **Original Invoice Number**
- **Invoice Due Date**
- **Billing Party Name**
- **Billing Party ID**
- **Non-Billing Party Name**
- **Non-Billing Party ID**
- **Customer ID**
- **Billing Party Customer Name**
- **Billing Party Previous Account Number**
- **Customer Balance Total**
- **Service Type**
- **Service Period Start Date**
- **Service Period End Date**
- **and Payment Plan Indicator.**

Each original Consolidated Billing Rate Ready transaction detail contains one or more

RXQ.3.6.3 Rate-Ready Invoice

- **Line Item Charges and Allowances**
- **Service Type**
- **Summary Level**
- **Unit of Measure for Quantity**
- **Usage Category**
- **Usage Code**
- **and Rate Codes**

Each cancel Rate Ready invoice transaction must include an **Invoice Purpose Code = 'Cancel'**, the UUID from the original transaction, and the same data found in the original Rate Ready invoice.

Rebilling of a cancelled Rate Ready invoice transaction is processed as an original Rate Ready invoice transaction.

Invoice Sections
NAESB Rate Ready Invoice standards support Account charges and taxes, including for multiple service periods.

Budget Billing and Payment Plans
There is no current support for Budget Billing or Payment Plans.

Cancellations: Rate Ready

- The prior 810 will be sent (cancel by billing period), however, it is not necessary to include the BAL segments in Rate Ready LDC Consolidated Billing scenario.
- The values will be identical in sign to what they were on the original bill. The way to indicate the bill is being reversed is through the use of the BIG08 field – value "01".
- The rebill will always be coded as an original (BIG08 – "00")

Rate Ready – Cancel / Rebill due to usage

	867 BPT01 or 810 BIG08	867 BPT02	867 BPT09	810 BIG02	810 BIG05	810 REF~OI
Utility sends usage	00	111				
Utility sends invoice	00			301	111	
Utility cancels usage	01	112	111			
Utility cancels original charge	01			302	**111**	301
Utility sends restated usage	00	113				
Utility sends restated charges	00			303	113	

RXQ.3.6.3 Rate-Ready Invoice

Sample Paper Transaction

Invoice Header	
Invoice Date:	20040413
Invoice Number:	04132004TR4877
Original Usage ID:	
Invoice Purpose:	Original
Billing Final Indicator:	No
Original Invoice Number:	X2004042312345
Invoice Due Date:	20040508
Billing Party (BP) Name:	Distribute-It Inc.
Billing Party ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Inc.
NBP ID:	546897321
BP Customer Name:	Use-It Inc.
BP Customer ID:	8473937UHFTR41304
Customer ID:	
Customer Balance Total:	$100.00
Service Type:	Electric
Service Period Start Date:	20040313
Service Period End Date:	20040412

Line Item Charges and Allowances						
Indicator	**Category**	**Unit**	**Qty**	**Rate**	**Amt**	**Description**
Charge	GEN002	KWh	500	$0.100	$50.00	Current Basic Generation - Consumption
Charge	DMD009	KW	20	$1.000	$20.00	Current Basic Generation - Peak Demand
Total of NBP Line Item Current Charges:					$79.25	

RXQ.3.6.3 Rate-Ready Invoice

Data Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Invoice Date	Date this transaction was created by the sender's application system.	M		
Invoice ID	Unique number identifying this transaction, created by the originator of this transaction	M		
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	RBC		
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancellation]
Final Indicator	Indicates whether this is a final bill	M		[Yes, No]
Original Invoice ID	The unique number assigned to the original document, used only to cancel the original. When a transaction is cancelled, the Original Reference Number is used as a trace number.	C	Send when Purpose is 'Reversal' or 'Cancellation'	
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Non-Billing Party Balance, Prior to Current Charges	Also known as Non-Billing Party Arrears	M		
Non-Billing Party Balance, After Current Charges	Amount due on the previous bill	M		
Non-Billing Party Balance, Previous	Total Non-Billing Party Account Balance	RBC		
Billing Cycle	Cycle number (1-99) on which the bill will be rendered.	RBC		
Date Customer Bill Issued	Date the Customer bill was issued	M		
Date Customer Payment Due	Date payment is due from Customer	M		
Service Period Start Date	Previous Meter Reading Date	M		
Service Period End Date	Current Meter Reading Date	M		
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]
Customer Name	Customer Name	M		
Customer Name	Customer Name	M		
Customer Name Overflow	Customer Name Overflow (e.g. store number)	BC		
Customer Name Overflow	Additional information used to further identify the Customer, as defined in Billing Party's systems.	SO		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Party Sending Bill	Identifies party sending the bill to the Customer	RBC		[Distribution Company, DUAL, Supplier]
Party Calculating Bill	Identifies party calculating the Non-Billing Party Charges	RBC		[Distribution Company, DUAL, Supplier]
Current Total Charges	Sum of all current charges	M		
Total Current Charge	Total NBP Current Charge	M		
Chg/Allow Summary Level	Code that defines if the data is summarized by Account, Rate, SDID, Un-metered, or Meter.	M		[Account, Rate, SDID, Un-metered, Metered]

RXQ.3.6.3 Rate-Ready Invoice

Data Elem. Name	Description	Use	Condition	Comments [Options]
Chg/Allow Credit/Debit Code	Identifies if Line Item is allowance/credit, charge/debit or no charge	M		Allowance, Charge, No Charge
Chg/Allow Category	Code for the class of charge	M		[Adjustment, Budget, Late Payment, Miscellaneous, Payment Plan Charge, etc.]
Chg/Allow Amount	Dollar amount for the credit/debit	M		
Chg/Allow Rate	Non-Billing Party Rate	M		
Chg/Allow Unit of Measure	Unit of measure for quantity	BC	M when line item has a measure	[Each, Kilowatt demand, kilovolt Amperes Reactive Demand, Kilovolt Amperes Reactive Hour, Kilovolt Amperes, Kilowatt Hour, therms, ccf, mcf]
Chg/Allow Quantity	Usage	M		
Chg/Allow Description	Line Item text that will print on the customer's bill	RBC		
Tax Type	Tax Type	RBC		
Tax Amount	Dollar amount for the tax	M		
Tax Percent	Tax Percent	RBC		
Taxing Jurisdiction	Identifies the taxing jurisdiction	RBC		
Tax Inclusion Indicator	Include or exclude from total charges	RBC		

RXQ.3.6.3 Rate-Ready Invoice

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Charge/Allowance Credit/Debit Code	Allowance	Allowance	A
Charge/Allowance Line Credit/Debit Code	Charge	Charge	C
Charge/Allowance Line Credit/Debit Code	No	No Allowance or Charge	N
Charge/Allowance Line Unit of Measure Code	British Thermal Units	British Thermal Units	BTU
Charge/Allowance Line Unit of Measure Code	Hundred Cubic Feet	Hundred Cubic Feet	CCF
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes	Kilovolt Amperes	K4
Charge/Allowance Line Unit of Measure Code	Kilovolt Amperes Reactive Hour	Kilovolt Amperes Reactive Hour	K3
Charge/Allowance Line Unit of Measure Code	Kilowatt Hour	Kilowatt Hour	KH
Charge/Allowance Line Unit of Measure Code	KVAR	KVAR Kilovolt Amperes Reactive Demand	K2
Charge/Allowance Line Unit of Measure Code	kW	kW - Represents potential power load measured at predetermined intervals	K1
Charge/Allowance Line Unit of Measure Code	Months	Months	MO
Charge/Allowance Line Unit of Measure Code	Therms	Therms	THERMS
Charge/Allowance Line Unit of Measure Code	Thousand Cubic Feet	Thousand Cubic Feet	MCF
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/Allowance Line Unit of Measure Code	Watt	Watt	99
Charge/AllowanceLine Credit/Debit Code	Allowance	Allowance	A
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
FinalInd	No	Left blank	[blank]
FinalInd	Yes	Identifies last bill to be sent	F
Party Calculating Bill	Distribution Company	Distribution Co calculates charges	LDC
Party Calculating Bill	Retail Supplier	Supplier calculates charges	ESP
Party Sending Bill	Distribution Company	Distribution Company sends bill to Customer	LDC
Party Sending Bill	Retail Supplier	Supplier sends bill to Customer	ESP
Purpose	Cancellation	Cancellation	1
Purpose	Duplicate	Duplicate	7
Purpose	Original	Original	0

RXQ.3.6.3 Rate-Ready Invoice

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??placeholder; delete after inserting from RTF]

RXQ.3.6.3 Rate-Ready Invoice

810 NAESB RXQ.3.6.3 Invoice: Rate Ready

Functional Group ID=IN

Introduction:

This NAESB guideline contains the format and establishes the data contents of the Rate Ready (RR) Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The Rate Ready transaction set is used to communicate invoice details between Suppliers and Distribution Companies in a competitive retail marketplace where one party is acting as the 'Billing Party' and the second party is acting as the 'Non-Billing Party'. The RR Invoice enables the Billing Party to communicate charges and information that it has calculated and placed on the bill on behalf of the Non-Billing Party

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
	050	REF	Non-Billing Party Account ID (REF~11)	C	1		
	050	REF	Original Invoice ID (REF~OI)	C	1		
M	050	REF	Customer ID (REF~12/Q5)	M	1		
	050	REF	Old Customer ID (REF~45)	C	1		
			LOOP ID - N1			1	
	070	N1	Name: Distribution Company (N1~8S)	O	1		
			LOOP ID - N1			1	
	070	N1	Name: Supplier (N1~SJ)	O	1		
M	130	ITD	Terms of Sale/Deferred Terms of Sale	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
M	010	IT1	Account Level Charges (IT109=ACCOUNT)	M	1		
M	150	DTM	Service Period Start Date (DTM~150)	M	1		
M	150	DTM	Service Period End Date (DTM~151)	M	1		
			LOOP ID - SLN			1000	
M	200	SLN	Subline Item Detail	M	1		
M	230	SAC	Invoice Charge or Allowance (SAC)	M	25		
	237	TXI	Tax Information	C	10		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	TDS	Total Monetary Value Summary	M	1		
M/U	070	CTT	Transaction Totals	O	1		n1
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

RXQ.3.6.3 Rate-Ready Invoice

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

RXQ.3.6.3 Rate-Ready Invoice

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~810~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 810 Invoice	**M ID 3/3**
Must Use	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

RXQ.3.6.3 Rate-Ready Invoice

Segment: **BIG** **Beginning Segment for Invoice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
Syntax Notes:
Semantic Notes:
1 BIG01 is the invoice issue date.
2 BIG03 is the date assigned by the purchaser to purchase order.
3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
Comments: **1** BIG07 is used only to further define the type of invoice when needed.
Notes: REQUIRED

BIG~20010201~123567890120010201~~~2048392934504~~PR~00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BIG01**	**373**	**Date**	**M DT 8/8**
			Date expressed as CCYYMMDD	
			Date that the data was processed by the sender's application system	
Must Use	**BIG02**	**76**	**Invoice Number**	**M AN 1/22**
			Identifying number assigned by issuer	
			A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This number will be returned in the RMR02 of the 820 and/or the OTI03 of the 824. Transaction Reference Number only contains uppercase letters (A to Z) and digits (0 to 9), dashes ('-'), or periods ('.'). All other punctuation (spaces, commas, etc.) must be excluded.	
Dep	**BIG05**	**328**	**Release Number**	**O AN 1/30**
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
			Monthly Invoice: The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810 and in the RMR loop REF~6O of the 820. For a cancelled invoice the cross-reference will be made to the original meter read BPT02, not the cancelled meter read BPT02 transaction.	
Must Use	**BIG07**	**640**	**Transaction Type Code**	**M ID 2/2**
			Code specifying the type of transaction	
			FB — Final Bill Final invoice sent for this Customer from the Non-Billing Party.	
			ME — Memorandum Monthly invoice	
Must Use	**BIG08**	**353**	**Transaction Set Purpose Code**	**M ID 2/2**
			Code identifying purpose of transaction set	

RXQ.3.6.3 Rate-Ready Invoice

00	Original
01	Cancellation Cancels the entire invoice/transaction cross-referenced in REF~OI

RXQ.3.6.3 Rate-Ready Invoice

Segment: **REF** **Non-Billing Party Account ID (REF~11)**
Position: 050
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED when previously provided by Non-Billing Party

REF~11~123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **REF** **Original Invoice ID (REF~OI)**
Position: 050
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Cross-reference to Invoice ID from original invoice; used for cancel
REQUIRED on a cancel invoice transaction (BIG08=01)

REF~OI~123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification OI Original Invoice Number		
Must Use	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.3 Rate-Ready Invoice

Segment: **REF** **Customer ID (REF~12/Q5)**
Position: 050
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in marketplace. Governing documents define whether REF~12 or REF~Q5 is required.

- REF~12 uses REF02 for ID; usually LDC Account Number
- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~1011111123456780
REF~Q5~~10111111234567890ABCDEFGHIJKL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			12 — Billing Account Account number under which billing is rendered Account number ID; sent in REF02	
			Q5 — Property Control Number Service Delivery ID (e.g. ESIID); sent in REF03	
Used	**REF02**	**127**	**Customer Account ID; use when REF01=12** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**
Used	**REF03**	**352**	**Customer SD ID; use when REF01=Q5** A free-form description to clarify the related data elements and their content	**X AN 1/80**

RXQ.3.6.3 Rate-Ready Invoice

Segment: **REF** **Old Customer ID (REF~45)**
Position: 050
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED when Customer ID has changed in last 45 days

REF~45~1011111123456780

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			12 Billing Account Account number under which billing is rendered	
			Q5 Property Control Number	
Used	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			8S — Consumer Service Provider (CSP)		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			Distribution Company Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			Distribution Company Entity ID		
Must Use	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			40 — Receiver		
			41 — Submitter		

RXQ.3.6.3 Rate-Ready Invoice

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID
REQUIRED

N1~SJ~SUPPLY-IT INC.~9~007909422CRN1~~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider	**M**	**ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name Supplier Name	**X**	**AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X**	**ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code Supplier Entity ID	**X**	**AN 2/80**
Must Use	**N106**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter	**O**	**ID 2/3**

RXQ.3.6.3 Rate-Ready Invoice

Segment:	**ITD** **Terms of Sale/Deferred Terms of Sale**
Position:	130
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify terms of sale
Syntax Notes:	**1** If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required. **2** If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required. **3** If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	**1** ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	**1** If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
Notes:	Date payment is due from Customer REQUIRED ITD~~~~~~20010215

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ITD06**	**446**	**Terms Net Due Date**	**O DT 8/8**
			Date when total invoice amount becomes due expressed in format CCYYMMDD	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **IT1** **Account Level Charges (IT109=ACCOUNT)**
Position: 010
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax Notes:
1 If any of IT102 IT103 or IT104 is present, then all are required.
2 If either IT106 or IT107 is present, then the other is required.
3 If either IT108 or IT109 is present, then the other is required.
4 If either IT110 or IT111 is present, then the other is required.
5 If either IT112 or IT113 is present, then the other is required.
6 If either IT114 or IT115 is present, then the other is required.
7 If either IT116 or IT117 is present, then the other is required.
8 If either IT118 or IT119 is present, then the other is required.
9 If either IT120 or IT121 is present, then the other is required.
10 If either IT122 or IT123 is present, then the other is required.
11 If either IT124 or IT125 is present, then the other is required.

Semantic Notes:
1 IT101 is the purchase order line item identification.

Comments:
1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Rate Ready only allows charges at a Customer level. Only one commodity is allowed per Invoice.
REQUIRED

IT1~1~~~~~SV~ELECTRIC~C3~ACCOUNT

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**IT101**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set	**O AN 1/20**
Must Use	**IT106**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	**X ID 2/2**
Must Use	**IT107**	**234**	**Product/Service ID** Identifying number for a product or service Only one commodity (electric or gas) for each 810 transaction. ELECTRIC GAS	**X AN 1/48**
Must Use	**IT108**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) C3 Classification	**X ID 2/2**
Must Use	**IT109**	**234**	**Product/Service ID** Identifying number for a product or service	**X AN 1/48**

RXQ.3.6.3 Rate-Ready Invoice

ACCOUNT Charges/Taxes at an Account level

RXQ.3.6.3 Rate-Ready Invoice

Segment: **DTM** **Service Period Start Date (DTM~150)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: The full service period should match the applicable PTD loops from the Usage 867.
REQUIRED

DTM~150~20010106

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 150 Service Period Start		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.3 Rate-Ready Invoice

Segment: **DTM** **Service Period End Date (DTM~151)**
Position: 150
Loop: IT1 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: The full service period should match the applicable PTD loops from the Usage 867.
REQUIRED

DTM~151~20010204

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 151 Service Period End		
Must Use	**DTM02**	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

RXQ.3.6.3 Rate-Ready Invoice

Segment: **SLN** **Subline Item Detail**
Position: 200
Loop: SLN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1 If either SLN04 or SLN05 is present, then the other is required.
2 If SLN07 is present, then SLN06 is required.
3 If SLN08 is present, then SLN06 is required.
4 If either SLN09 or SLN10 is present, then the other is required.
5 If either SLN11 or SLN12 is present, then the other is required.
6 If either SLN13 or SLN14 is present, then the other is required.
7 If either SLN15 or SLN16 is present, then the other is required.
8 If either SLN17 or SLN18 is present, then the other is required.
9 If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
1 SLN01 is the identifying number for the subline item.
2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
1 See the Data Element Dictionary for a complete list of IDs.
2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: The SLN will be used to group charges together.
REQUIRED

SLN~1~~A

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SLN01**	**350**	**Assigned Identification**	**M AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set Used as a loop counter	
Must Use	**SLN03**	**662**	**Relationship Code**	**M ID 1/1**
			Code indicating the relationship between entities A Add	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **SAC** **Invoice Charge or Allowance (SAC)**
Position: 230
Loop: SLN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:
1 At least one of SAC02 or SAC03 is required.
2 If either SAC03 or SAC04 is present, then the other is required.
3 If either SAC06 or SAC07 is present, then the other is required.
4 If either SAC09 or SAC10 is present, then the other is required.
5 If SAC11 is present, then SAC10 is required.
6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7 If SAC14 is present, then SAC13 is required.
8 If SAC16 is present, then SAC15 is required.

Semantic Notes:
1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2 SAC05 is the total amount for the service, promotion, allowance, or charge.
If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3 SAC08 is the allowance or charge rate per unit.
4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7 SAC16 is used to identify the language being used in SAC15.

Comments:
1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: Invoice line item charge or allowance.
REQUIRED

SAC~C~~EU~DIS001~2400~~~.016~KH~1500~~~~~DUOS
SAC~C~~EU~LPC001~500~~~100.00~EA~.05
SAC~C~~EU~INT001~500~~~100.00~EA~.05
SAC~C~~EU~INT003~-500~~~100.00~EA~-.05
SAC~C~~EU~MSC003~2500~~~1~EA~25.00~~~~~METER SEAL REPLACEMENT CHARGE

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	SAC01	248	**Allowance or Charge Indicator**	M ID 1/1

Code which indicates an allowance or charge for the service specified

C Charge
N No Allowance or Charge
Ignore this SAC05 amount when summing the invoice total

RXQ.3.6.3 Rate-Ready Invoice

Must Use	**SAC03**	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Code identifying the agency assigning the code values		
			EU — Electric Utilities Use regardless of Electric or Gas charges since SAC04 values are from governing documents		
			GU — Natural Gas Utilities		
Must Use	**SAC04**	**1301**	**Agency Service, Promotion, Allowance, or Charge Code**	**X**	**AN 1/10**
			Agency maintained code identifying the service, promotion, allowance, or charge		
			Refer to governing documents for marketplace for list of valid codes		
Must Use	**SAC05**	**610**	**Amount**	**M**	**N2 1/15**
			Monetary amount		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05		
Used	**SAC08**	**118**	**Rate**	**O**	**R 1/9**
			Rate expressed in the standard monetary denomination for the currency specified		
			This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.		
Must Use	**SAC09**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			Refer to governing documents for marketplace for list of valid codes		

4A	Bobbin A cylinder or spindle on which yarn or thread is wound ERCOT 4CP Kilowatt Demand
4B	Cap Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance ERCOT 4CP KVA Demand
4C	Centistokes 1 * 10/-6 square meters/second ERCOT 4CP Power Factor Adjusted
4D	Curie A unit of radioactivity equal to 3.7 * 10/10 disintegrations per second ERCOT 4CP KVAR Demand
99	Watt
AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce
DA	Days
DO	Dollars, U.S.
EA	Each
HH	Hundred Cubic Feet ccf
K1	Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand

RXQ.3.6.3 Rate-Ready Invoice

K3	Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes
K5	Kilovolt Amperes Reactive
K7	Kilowatt
KH	Kilowatt Hour
MO	Months
NA	Milligrams per Kilogram
	ERCOT NCP Kilowatt Demand
NB	Barge
	ERCOT NCP KVA Demand
NC	Car
	ERCOT NCP Power Factor Adjusted
ND	Net Barrels
	ERCOT NCP KVAR Demand
RA	Rack
	ERCOT Ratchet Kilowatt Demand
RB	Radian
	ERCOT Ratchet KVA Demand
RC	Rod (area) - 16.25 Square Yards
	ERCOT Ratchet Power Factor Adjusted
RD	Rod (length) - 5.5 Yards
	ERCOT Ratchet KVAR Demand
TD	Therms
TZ	Thousand Cubic Feet

Must Use	**SAC10**	**380**	**Quantity**	**X**	**R 1/15**

Numeric value of quantity

Consumption or Quantity. This field must be signed if it is negative. SAC08 x SAC10 always equals SAC05.

RXQ.3.6.3 Rate-Ready Invoice

Segment: **TXI** **Tax Information**
Position: 237
Loop: SLN Mandatory
Level: Detail
Usage: Conditional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:
1 At least one of TXI02 TXI03 or TXI06 is required.
2 If either TXI04 or TXI05 is present, then the other is required.
3 If TXI08 is present, then TXI03 is required.
Semantic Notes:
1 TXI02 is the monetary amount of the tax.
2 TXI03 is the tax percent expressed as a decimal.
3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
Notes: Tax information should be provided when the Billing Party is calculating charges and taxes for the Non-Billing Party.
REQUIRED when the Billing Party calcuates taxes for the Non-Billing Party

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**TXI01**	**963**	**Tax Type Code**	**M**	**ID 2/2**
			Code specifying the type of tax		
			CA City Tax Service Tax imposed by City		
			CT County Tax		
			FR Franchise Tax		
			GR Gross Receipts Tax		
			LO Local Tax (Not Sales Tax) Service tax imposed on a local level		
			LS State and Local Sales Tax		
			ST State Sales Tax		
Must Use	**TXI02**	**782**	**Monetary Amount**	**X**	**R 1/18**
			Monetary amount		
Used	**TXI04**	**955**	**Tax Jurisdiction Code Qualifier**	**X**	**ID 2/2**
			Code identifying the source of the data used in tax jurisdiction code Refer to 004010 Data Element Dictionary for acceptable code values.		
Used	**TXI05**	**956**	**Tax Jurisdiction Code**	**X**	**AN 1/10**
			Code identifying the taxing jurisdiction		
Must Use	**TXI07**	**662**	**Relationship Code**	**O**	**ID 1/1**
			Code indicating the relationship between entities		
			A Add		

Segment:	**TDS** **Total Monetary Value Summary**
Position:	010
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the total invoice discounts and amounts
Syntax Notes:	
Semantic Notes:	**1** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable). **2** TDS02 indicates the amount upon which the terms discount amount is calculated. **3** TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount). **4** TDS04 indicates the total amount of terms discount.
Comments:	**1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.
Notes:	TDS01 is the total amount due for this invoice and must equal the algebraic sum of the amounts in the TXI02 and SAC05 segments with the exception of any charges that are designated to be ignored in the calculation in the TXI07 or SAC01. If this amount is negative, send the minus sign. REQUIRED TDS~19875 (Represents $198.75 since the decimal is implied)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**TDS01**	**610**	**Amount** Monetary amount If negative, this amount must be preceded by a negative sign. Implied decimal field: DO NOT send the decimal point	**M N2 1/15**

Segment: **CTT** **Transaction Totals**
Position: 070
Loop:
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
1 If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: REQUIRED

CTT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**CTT01**	**354**	**Number of Line Items**	**M N0 1/6**
			Total number of line items in the transaction set The number of IT1 segments.	

RXQ.3.6.3 Rate-Ready Invoice

Segment: **SE** **Transaction Set Trailer**
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED

SE~35~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
Must Use	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

[END X12 MAPPING GUIDELINES FOR RATE-READ INVOICE]

RXQ.3.6.4 Payments

RXQ.3.6.4: PAYMENT REMITTANCE

Technical Implementation Of Business Process
Related MBP's: RXQ.3.3.3.7

The Payment Remittance transaction is the communication between companies that itemizes payments made from the Billing Party to the Non-Billing Party.

The Payment Remittance transaction is designed to be sent directly from the Billing Party to the Non-Billing Party. By mutual agreement Payment Remittance and actual Payments may be combined under a single transaction (e.g. CTX payments). These standards do not address this scenario. Different banks have different requirements that must be addressed.

The payment is identified by the **Reference Number ID**.

The payment header includes:
- Billing Party ID
- Billing Party Name
- Funds Transfer Date
- Monetary Amount
- Non-Billing Party ID
- Non-Billing Party Name
- Payment Format Code
- Payment Method Code
- Purpose
- Payment Reference ID
- Transaction Date
- Transaction Handling Code

The remittance detail includes:
- Adjustment Reason Code
- Credit/Debit Indicator
- Customer Account ID
- Customer Payment Posting Date
- Discount Amount
- Money Collected
- Non-Billing Party Account ID
- Payment/Adjustment Type

RXQ.3.6.4 Payments

Sample Paper Transaction

Remittance Header	
Remittance Date:	20040413
Number:	04132004TR4877
Remittance / Payment Cross-Reference Number:	04132004MR8392
Trace Type:	Remittance Only
Payment Method Type	ACH
Settlement Date:	20040413
Billing Party (BP) Name:	Distribute-It Inc.
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Inc.
NBP Entity ID:	546897321
Total Monetary Amount Transferred	$100.00

Payment Action Code	BP Customer ID	Date Posted	Usage Reference Number	Orig Invoice Amount	Disc Amt	Payment Amt	Cred/ Debit Code	Adj Amt	Adj Reason
Payment	123456789012	20040410	200403251234	$100.00	$5.00	$95.00	C		
Payment	12345678123	20040411	200403255678	$100.00			C		
Adjustment			200403265678				D		

RXQ.3.6.4 Payments

Data Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Payment Reference ID	Unique number identifying this transaction and created by the originator of this transaction	M		
Transaction Handling Code	A code to identify which type of transaction is being used	M		[Remittance only, Remittance and payment together]
Monetary Amount	The positive dollar amount being sent to the Non-Billing Party. This amount should sum to the individual amounts in detail.	M		
Payment Method Code	Defines the method for transmitting payment	M		[Automated Clearing House,Check]
Payment Format Code	Defines the payment format to be used	M		[Corp Trade Exchange,Cash Concentration Disbursement, Check]
Date Funds Transferred	Date the Billing Party intends for the transaction to be settled	M		
Bank Trace ID	Links remittance transaction to the bank payment transaction	M		
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Customer Payment Posting Date	Date the Customer's payment was posted	M		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		
Non-Billing Party Customer Account ID	Non-Billing Party Customer Account ID	M		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Old Customer Account ID	M		
Usage ID	Unique ID created by the originator of the usage transaction; used for cross-reference between Usage, Invoice and Payment transactions	M		
Payment/Adjustment Type	A code to indicate the type of payment or adjustment	M		[Adjustment, Payment on Account]
Money Collected	Payments / Credits applied (+/-)	M		
Adjustment Reason Code	Code that specifies the reason for the accounting adjustment	C	Send when Payment/Adjustment Type is “Adjustment”	[Adjustment, Invoice Cancelled, Insufficient Funds, Authorized Return]
Discount Amount	The amount of discount the Billing Party is entitled to when assuming receivables	M		

RXQ.3.6.4 Payments

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Adjustment Reason Code	Adjustment	Adjustment	CS
Adjustment Reason Code	Authorized Return	Authorized Return	72
Adjustment Reason Code	Insufficient Funds	Insufficient Funds	IF
Adjustment Reason Code	Invoice Cancelled	Invoice Cancelled	26
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Payment Format	CCD+	Cash Concetration/Disbursement plus Addenda	CCP
Payment Format	CTX	Corporate Trade Exchange	CTX
Payment Method	ACH	Automated Clearing House	ACH
Payment Method	Check	Check	CHK
Payment/Adjustment Code	Adjustment	Adjustment	AJ
Payment/Adjustment Code	Payment on Account	Payment on Account	PO
Transaction Handling Code	Handling Party Option	Handling parties option to split payment and remittance	X
Transaction Handling Code	Payment Only	Make Payment Only	D
Transaction Handling Code	Prenotification	Prenotification of future transfers	P
Transaction Handling Code	Remittance and Payment	Remittance and Payment	C
Transaction Handling Code	Remittance Only	Remittance Only	I
Transaction Handling Code	Split Payment and Remittance	Split payment and Remittance	U

RXQ.3.6.4 Payments

X12 EDI Subtab
ASC X12 Mapping Guidelines
[??placeholder; delete after inserting from RTF]

RXQ.3.6.4 Payments

820 NAESB RXQ.3.6.4 Payment Order/Remittance Advice

Functional Group ID=RA

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
	035	TRN	Trace	C	1		c1
			LOOP ID - N1			>1	
M	070	N1	Name: Payee	M	1		c2
			LOOP ID - N1			>1	
M	070	N1	Name: Payer	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - ENT			>1	
M	010	ENT	Entity	M	1		n1, c3
			LOOP ID - RMR			>1	
M	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	M	1		c4
	170	REF	Usage ID (REF~6O)	C	1		
M	170	REF	Customer ID (REF~12/Q5)	M	1		
	170	REF	Non-Billing Party Account ID (REF~11)	C	1		
	170	REF	Old Customer ID (REF~45)	C	1		
M	170	REF	Commodity Service Type (REF~QY)	M	1		
M	180	DTM	Date Posted (DTM~809)	M	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The ENT loop is for vendor or consumer third party consolidated payments.

RXQ.3.6.4 Payments

Transaction Set Comments

1. The TRN segment is used to uniquely identify a payment order/remittance advice.
2. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
3. ENT09 may contain the payee's accounts receivable customer number.
4. Loop RMR is for open items being referenced or for payment on account.

RXQ.3.6.4 Payments

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~820~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set 820 Payment Order/Remittance Advice	
Must Use	**ST02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.4 Payments

Segment: **BPR** **Beginning Segment for Payment Order/Remittance Advice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and total payment amount, or to enable related transfer of funds and/or information from payer to payee to occur

Syntax Notes:
1 If either BPR06 or BPR07 is present, then the other is required.
2 If BPR08 is present, then BPR09 is required.
3 If either BPR12 or BPR13 is present, then the other is required.
4 If BPR14 is present, then BPR15 is required.
5 If either BPR18 or BPR19 is present, then the other is required.
6 If BPR20 is present, then BPR21 is required.

Semantic Notes:
1 BPR02 specifies the payment amount.
2 When using this transaction set to initiate a payment, all or some of BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used.
BPR06 and BPR07 relate to the originating depository financial institution (ODFI).
3 BPR08 is a code identifying the type of bank account or other financial asset.
4 BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.
5 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI).
6 BPR14 is a code identifying the type of bank account or other financial asset.
7 BPR15 is the account number of the receiving company to be debited or credited with the payment order.
8 BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).
9 BPR17 is a code identifying the business reason for this payment.
10 BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only.
11 BPR20 is a code identifying the type of bank account or other financial asset.

Comments:

Notes: 820 remittance advice is sent daily and includes all applicable adjustments as long as adjustments are not larger than payments.

If adjustments are larger (creating a negative remittance advice), the sender will hold the remittance advice for one business day.

If negative remittance cannot be offset in one business day, the payer contacts the payee to determine the best remedy.
REQUIRED

BPR~I~1000.00~C~FWT~~~~~~~~~~~~20010731

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BPR01**	**305**	**Transaction Handling Code**	**M ID 1/2**
			Code designating the action to be taken by all parties	
			I — Remittance Information Only	
Must	**BPR02**	**782**	**Monetary Amount**	**M R 1/18**

RXQ.3.6.4 Payments

Use					
			Monetary amount The total positive amount (including zero) being sent to Payee. Monetary Amount must equal the sum of all Detail Position 150 RMR04 elements.		
Must Use	**BPR03**	**478**	**Credit/Debit Flag Code**	**M**	**ID 1/1**
			Code indicating whether amount is positive or negative C Credit		
Must Use	**BPR04**	**591**	**Payment Method Code**	**M**	**ID 3/3**
			Code identifying the method for transmitting the payment ACH Automated Clearing House (ACH) CHK Check		
Must Use	**BPR05**	**812**	**Payment Format Code**	**M**	**ID 1/10**
			Code identifying the payment format to be used CCP Cash Concentration/Disbursement plus Addenda (CCD+) (ACH) CTX Corporate Trade Exchange (CTX) (ACH)		
Must Use	**BPR16**	**373**	**Funds Transfer Date**	**O**	**DT 8/8**
			Date [CCYYMMDD] when Payee intends for the transaction to be settled The date the originating company intends for the transaction to be settled (i.e., Payment Effective Date).		

RXQ.3.6.4 Payments

Segment: **TRN** **Trace**
Position: 035
Loop:
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To uniquely identify a transaction to an application
Syntax Notes:
Semantic Notes:
1 TRN02 provides unique identification for the transaction.
2 TRN03 identifies an organization.
3 TRN04 identifies a further subdivision within the organization.

Comments:
Notes: Unique ID identifying this transaction, created by the originator, enabling cross-reference to ACH or wire payments.
REQUIRED when this 820 is for remittance information only

TRN~3~UCP103941

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**TRN01**	**481**	**Trace Type Code**	**M**	**ID 1/2**
			Code identifying which transaction is being referenced		
			1 — Current Transaction Trace Numbers		
			3 — Financial Reassociation Trace Number		
Must Use	**TRN02**	**127**	**Payment Reference ID**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Transaction Reference numbers contain only uppercase letters (A to Z) and digits (0 to 9), dashes ('-'), or periods ('.'). All other punctuation (spaces, commas, etc.) must be excluded.		

RXQ.3.6.4 Payments

Segment: **N1** **Name: Payee**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes:
Receiver of the payment/remittance advice
REQUIRED

N1~PE~PAYEE COMPANY~1~007191969

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual PE Payee	**M ID 2/3**
Must Use	**N102**	**93**	**Name** Free-form name Payee Name	**X AN 1/60**
Must Use	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**X ID 1/2**
Must Use	**N104**	**67**	**Identification Code** Code identifying a party or other code Payee Entity ID	**X AN 2/80**

RXQ.3.6.4 Payments

Segment: **N1** **Name: Payer**
Position: 070
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes:
Initiator of the payment/remittance advice
REQUIRED

N1~PR~PAYER CO~9~0079111957CRN1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			PR — Payer		
Must Use	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Payer Name		
Must Use	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			Payer D-U-N-S Number or D-U-N-S + 4 Number		

RXQ.3.6.4 Payments

Segment: **ENT** **Entity**
Position: 010
Loop: ENT Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To designate the entities which are parties to a transaction and specify a reference meaningful to those entities
Syntax Notes:
1 If any of ENT02 ENT03 or ENT04 is present, then all are required.
2 If any of ENT05 ENT06 or ENT07 is present, then all are required.
3 If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows:
(1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master).
(2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used.
(3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used.
(4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master.
This segment also allows for the transmission of a unique reference number that is meaningful between the entities.

Notes: Only one ENT loop per 820
REQUIRED

ENT~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ENT01**	**554**	**Assigned Number**	**O N0 1/6**
			Number assigned for differentiation within a transaction set	

RXQ.3.6.4 Payments

Segment: **RMR** **Remittance Advice Accounts Receivable Open Item Reference**
Position: 150
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail
Syntax Notes:
1 If either RMR01 or RMR02 is present, then the other is required.
2 If either RMR07 or RMR08 is present, then the other is required.
Semantic Notes:
1 If RMR03 is present, it specifies how the cash is to be applied.
2 RMR04 is the amount paid.
3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.
4 RMR06 is the amount of discount taken.
5 RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation.
Comments:
1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.
3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.
Notes: A separate RMR loop & segment is required for each Customer ID payment remittance reported
REQUIRED

RMR~IK~123455~~1000.00 (using Invoice ID in RMR02)
RMR~IK~6789012345~~-1000.00 (using Customer Account ID in RMR02)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	RMR01	128	**Reference Identification Qualifier**	X ID 2/3
			Code qualifying the Reference Identification	
			IK — Invoice Number Single Retail Bill Option use only; invoice ID from the BIG02 of the 810 Invoice	
Must Use	RMR02	127	**Reference Identification**	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Single Retail Bill Option use only; Invoice Number	
Used	RMR03	482	**Payment Action Code**	O ID 2/2
			Code specifying the accounts receivable open item(s), if any, to be included in the cash application.	
			AJ — Adjustment AJ limited to: a) Payment was made to the wrong vendor; b) Duplicate Payment; or c) Cancel/rebill created a credit	
			PO — Payment on Account	

RXQ.3.6.4 Payments

Must Use	**RMR04**	**782**	**Net Amount Paid**	**O**	**R 1/18**
			Monetary amount Payment or adjustment amount - the sum of all Detail Position 150 RMR04 elements must equal the amount in Header Position 020 BPR02. Please see the Notes section in the BPR Segment for instructions on how to handle a negative remittance.		
Used	**RMR05**	**782**	**Discount Amount**	**O**	**R 1/18**
			Monetary amount		
Used	**RMR06**	**782**	**Original Invoice Amount**	**O**	**R 1/18**
			Monetary amount		
Used	**RMR07**	**426**	**Adjustment Reason Code**	**X**	**ID 2/2**
			Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment 26 Invoice Cancelled 72 Authorized Return CS Adjustment IF Insufficient Funds		
Used	**RMR08**	**782**	**Adjustment Amount**	**X**	**R 1/18**
			Monetary amount Signed if negative, amount in RMR04 will always be the same as the amount in RMR08. The adjustment amount is only populated if there is an adjustment to be made.		

RXQ.3.6.4 Payments

Segment: **REF** **Usage ID (REF~6O)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Usage ID establishes a cross-reference to Usage (867 BPT02)
REQUIRED

REF~6O~2348400586

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 6O Cross Reference Number	
Must Use	**REF02**	**127**	**Usage ID**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Usage ID only contains uppercase letters (A to Z) and digits (0 to 9). Punctuation (spaces, dashes, etc.) must be EXCLUDED.	

RXQ.3.6.4 Payments

Segment: **REF** **Customer ID (REF~12/Q5)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in marketplace. Governing documents define whether REF~12 or REF~Q5 is required.

- REF~12 uses REF02 for ID; usually LDC Account Number
- REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT)

REQUIRED

REF~12~1234567890
REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	REF01	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account Account number under which billing is rendered Account number ID; sent in REF02	
			Q5 Property Control Number Service Delivery ID (e.g. ESIID); sent in REF03	
Used	REF02	127	**Customer Account ID; use when REF01=12**	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Must Use	REF03	352	**Customer SDID; use when REF01=Q5**	X AN 1/80
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.4 Payments

Segment: **REF** **Non-Billing Party Account ID (REF~11)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED when provided by the Non-Billing Party

REF~11~3940193248

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.4 Payments

Segment: **REF** **Old Customer ID (REF~45)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED if the Customer ID has changed within the last 45 days

REF~45~1105687500

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Customer ID only contains uppercase letters (A to Z) and digits (0 to 9). Punctuation (spaces, dashes, etc.) must be excluded, and leading and trailing zeros that are part of the ID must be present.	

RXQ.3.6.4 Payments

Segment: **REF** **Commodity Service Type (REF~QY)**
Position: 170
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: Identifies type of commodity service (electric or natural gas)

REQUIRED

REF~QY~ELECTRIC

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			QY — Service Performed Code: Number indicating the type of service performed to repair a product	
Must Use	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Identifies service type: 'ELECTRIC' or 'GAS' are only valid values.	
			ELECTRIC — Electric Commodity Service	
			GAS — Natural Gas Commodity Service	

RXQ.3.6.4 Payments

Segment: **DTM** **Date Posted (DTM~809)**
Position: 180
Loop: RMR Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
Date payment was posted to Billing Parties AR System
REQUIRED

DTM~809~20051111

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**DTM01**	**374**	**Date/Time Qualifier**	**M ID 3/3**
			Code specifying type of date or time, or both date and time 809 Posted	
Used	**DTM02**	**373**	**Date** Date expressed as CCYYMMDD	**X DT 8/8**

RXQ.3.6.4 Payments

Segment:	**SE** **Transaction Set Trailer**
Position:	010
Loop:	
Level:	Summary
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:	
Semantic Notes:	
Comments:	**1** SE is the last segment of each transaction set.
Notes:	REQUIRED SE~28~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

[END X12 MAPPING GUIDELINES FOR PAYMENT]

RXQ.3.6.5: PAYMENT NOTIFICATION (COLLECTIONS)

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.8.1 through 3.3.9.5, 3.3.7.1, 3.3.7.2, 3.3.8.3,

The Payment Notification/Collections transaction is used in the 'Assumption of Receivables' scenario to enable Non-Billing Parties to identify accounts that are delinquent. It is the communication of all payments and adjustments made to customer accounts by the Billing Party. A single Payment Notification transaction is sent each day.

The transaction is sent by the **Billing Party**. The transaction is received by the **Non-Billing Party**.

The transaction is identified by the **Collection Unique ID**.

Each original Payment Notice header contains

- **Transaction Purpose**
- **Collection Unique ID**
- **Transaction Date**
- **Total Monetary Amount**
- **Billing Party ID and name**
- **Non-Billing Party ID and name.**

The Payment Notice detail repeats for each payment being reported. Multiple payments for a single customer are allowed. Each original Payment Notice detail contains

- **Customer ID and Name**
- **Supplier ID**
- **Service Type**
- **Assigned line number**
- **Transaction reference number for the amount**
- **Payment/Adjustment Indicator.**

RXQ.3.6.5 Payment Notification

Sample Paper Transaction

Payment Notification Header	
Transaction Date:	20040413
Collection Unique ID:	04132004TR4877
Trans Purpose:	Original
Billing Party (BP) Name:	Distribute-It Inc.
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Inc.
NBP Entity ID:	546897321
Total Monetary Amount	$190.00
Detail	
Customer ID:	12345767890
NBP Customer ID:	12345656788
Customer Name	Use-It Inc.
Service Type:	Electric
Transaction Reference Number	Dkoejdhkk20040511
Payment / Adjustment Flag:	Payment
Payment Level Allocated Amount::	$100.00
Customer Acct ID:	12345767890
NBP Customer Acct ID:	12345656788
Customer Name	Use-It Inc.
Service Type:	Electric
Transaction Reference Number	Dkoejdhkk20040514
Payment / Adjustment Flag:	Payment
Payment Level Allocated Amount::	$90.00

Note: this example shows a notification for a single customer, so the Total Monetary Amount is $190.00. In the event other customers are to be reported, the Total Monetary Amount would include those monies associated with the other customers.

RXQ.3.6.5 Payment Notification

Data Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
Transaction Purpose	Identifies the reason for sending this information	M		[Original, Cancel]
Payment Notification Unique ID	Unique number assigned by the originator of this transaction. This should be unique over time.	M		
Payment Notification Date	Date this transaction was created by the sender's application system.	M		
Total Monetary Amount Allocated	Total Monetary Amount allocated to the non-billing party; Sum of all detail amounts in this transaction.	M		
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Billing Party Entity Name	Billing Party's Name	M		
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M		
Non-Billing Party Entity Name	Non-Billing Party's Name	M		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Non-Billing Party Amount Allocated for Account	Total Monetary or Adjustment allocated for this Customer by the Billing Party on behalf of the Non-Billing Party	M		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC	Send if previously sent	
Old Customer ID	Previous Billing Party Customer Account Number	BC	Send if Customer ID changed in last 45 days	
Transaction Tracking ID	Transaction tracking number used to uniquely identify this allocation	M		
Customer Name	Customer Name	M		
Payment Level Allocated Amount	Individual allocated amount or amounts. If more than one Customer payment was posted to this Customer account, this will be repeated for each Customer payment.	M		
Transaction Detail ID	Unique Number identifying this Customer account record.	M		
Type of Adjustment	Adjustment reason code	C	Send when Payment/Adjustment code indicates Adjustment	[Adjustment, Insufficient Funds, Returned Items]
Posting Date	Date the payment or adjustment was posted in the billing party's system. Format: CCYYMMDD	M		
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]

RXQ.3.6.5 Payment Notification

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Payment/Adjustment Indicator	Adjustment	Adjustment	BM
Payment/Adjustment Indicator	Collected Amount	Collected Amount	KL
Purpose	Original	Original	00
Type of Adjustment	Adjustment	Adjustment	CS
Type of Adjustment	Insufficient Funds	Insufficient Funds	IF
Type of Adjustment	Returned Items	Returned Items	72

RXQ.3.6.5 Payment Notification

X12 EDI Subtab

ASC X12 Mapping Guidelines

[??placeholder; delete after inserting from RTF]

568 NAESB RXQ.3.6.5 Payment Notification

Functional Group ID=D5

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Contract Payment Management Report Transaction Set (568) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to enable the transmission of a management report to provide the details of payments and collections made against funds obligated on contracts, orders, and other services.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BGN	Beginning Segment	M	1		n1
M	030	AMT	Monetary Amount: Total Received (AMT~AT)	M	2		n2
			LOOP ID - N1			10	
M	040	N1	Name: Distribution Company (N1~8S)	M	1		n3
			LOOP ID - N1			10	
M	040	N1	Name: Supplier (N1~SJ)	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CS			>1	
M	010	CS	Contract Summary	M	1		n4
	020	N9	Non-Billing Party Account ID (N9~11)	C	3		n5
	020	N9	Old Customer ID (N9~45)	C	3		
			LOOP ID - REF			>1	
M	060	REF	Commodity Service Type (REF~QY)	M	1		n6
			LOOP ID - LX			>1	
M	080	LX	Assigned Number	M	1		
M	090	N9	Transaction Tracking ID (N9~TN)	M	1		n7
M	100	AMT	Monetary Amount	M	>1		n8
			LOOP ID - N1			1	
M	140	N1	Name: Customer (N1~8R)	M	1		n9

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The BGN segment identifies the transaction set purpose code, a unique number used to identify this transmission, and the date and time of transaction set creation.
2. The AMT segment identifies the collected amount and the disbursed amount to the extent that either amount applies to the transaction set.

RXQ.3.6.5 Payment Notification

3. The N1 loop identifies the name and address information for the transmitting and receiving parties.

4. The CS segment identifies the contract, modification, call, and order number of the procurement instrument, and the voucher number of the payment being reported on in this contract payment management report.

5. The N9 segment identifies the number of the original voucher on which a payment was made if the voucher being reported on in this transmission is a change, correction, or adjustment to that previous voucher.

6. The REF segment identifies a reference number associated with the following appropriation data.

7. The N9 segment identifies a contract line item, exhibit line item, or subclassification of either against which specific data is being reported.

8. The AMT segment identifies the gross, net, deducted, or collected amounts and the net variance amount applicable to the line item being reported.

9. The N1 loop identifies address information for a quantity delivered in a specific shipment, to a specific ship-to address.

RXQ.3.6.5 Payment Notification

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~568~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 3/3**
Must Use	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

RXQ.3.6.5 Payment Notification

Segment: **BGN** **Beginning Segment**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes:
1 If BGN05 is present, then BGN04 is required.
Semantic Notes:
1 BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Comments:
Notes: REQUIRED

BGN~00~94852-34985-9~20051118

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**BGN01**	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**
			Code identifying purpose of transaction set		
			00 Original		
Must Use	**BGN02**	**127**	**Payment Notification ID**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time.		
Must Use	**BGN03**	**373**	**Payment Notification Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
			The transaction creation date - the date that the data was processed by the sender's application system.		

RXQ.3.6.5 Payment Notification

Segment: **AMT** **Monetary Amount: Total Received (AMT~AT)**
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 2
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: REQUIRED

AMT~AT~1500.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount AT — Total Received The AMT02 element is the sum of all CS11s in this transaction set.	**M ID 1/3**
Must Use	**AMT02**	**782**	**Monetary Amount** Monetary amount	**M R 1/18**

RXQ.3.6.5 Payment Notification

Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 040
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909411~~41

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			8S — Consumer Service Provider (CSP)		
Used	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			Distribution Company Name		
Used	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Used	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			Distribution Company Entity ID		
Used	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			40 — Receiver Entity to accept transmission The receiver is the Non-Billing Party		
			41 — Submitter Entity transmitting transaction set The sender is the Billing Party		

RXQ.3.6.5 Payment Notification

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 040
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: Supplier Name and Entity ID
REQUIRED

N1~SJ~SUPPLY-IT INC.~9~007909422CRN1~~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual	
			SJ — Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered	
Used	**N102**	**93**	**Name**	**X AN 1/60**
			Free-form name	
			Supplier Name	
Used	**N103**	**66**	**Identification Code Qualifier**	**X ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)	
			1 — D-U-N-S Number, Dun & Bradstreet	
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Used	**N104**	**67**	**Identification Code**	**X AN 2/80**
			Code identifying a party or other code	
			Supplier Entity ID	
Used	**N106**	**98**	**Entity Identifier Code**	**O ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual	
			40 — Receiver Entity to accept transmission The receiver is the Non-Billing Party	
			41 — Submitter Entity transmitting transaction set The sender is the Billing Party	

RXQ.3.6.5 Payment Notification

Segment: **CS** **Contract Summary**
Position: 010
Loop: CS Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To provide information about a contract
Syntax Notes: **1** If either CS04 or CS05 is present, then the other is required.
Semantic Notes:
1 CS09 is the permissible overage as a percentage of the total contract line item number (CLIN) quantity.
2 CS10 is the permissible shortage as a percentage of the total contract line item number (CLIN) quantity.
3 CS11 is the permissible overage dollar value specified by the contract above which discrepancy action is taken.
4 CS14 is the Unit of Measure stipulated in the contract.
5 CS15 is the contract line item number (CLIN) unit price specified in the contract.
6 CS17 conveys the Critical Application Indicator. A "Y" indicates that a Critical Application Indicator is specified in the contract; an "N" indicates that no Critical Application Indicator is specified in the contract.
7 CS18 conveys the Special Requirements Indicator. A "Y" indicates that a Special Requirements Indicator (requiring special testing and or evaluation) is specified in the contract; an "N" indicates that no Special Requirements Indicator is specified in the contract.
Comments:
1 CS04 may be used to identify the Contract Line Item Number (CLIN) or Extended (or Exhibit) Line Item Number (ELIN).
2 CS07 and CS13 can be used to indicate two different types of special services required.
Notes: The CS segment defines the Customer ID and the total amount allocated/adjusted. Each CS loop will only contain one LX loop (payment detail). If there are multiple payments on a specific account, there will be multiple CS loops for that account.
REQUIRED

CS~~~~12~12345678988~~~~~~-50.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Used	CS04	128	**Reference Identification Qualifier**	X	ID 2/3
			Code qualifying the Reference Identification		
			12 — Billing Account: Account number under which billing is rendered		
Must Use	CS05	127	**Customer ID**	M	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			ID that uniquely defines the Customer in the marketplace.		
Used	CS11	782	**Monetary Amount**	O	R 1/18
			Monetary amount		
			Total monetary amount allocated for the Customer account by the Billing Party on behalf of the Non-Billing Party or adjustment amount allocated by the Billing Party on behalf of the Non-Billing Party. The CS11 will equal the sum of all AMT02 elements of this Customer ID		

RXQ.3.6.5 Payment Notification

Segment:	**N9** **Non-Billing Party Account ID (N9~11)**
Position:	020
Loop:	CS Mandatory
Level:	Detail
Usage:	Conditional
Max Use:	3
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:	**1** At least one of N902 or N903 is required. **2** If N906 is present, then N905 is required. **3** If either C04003 or C04004 is present, then the other is required. **4** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** N906 reflects the time zone which the time reflects. **2** N907 contains data relating to the value cited in N902.
Comments:	
Notes:	ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party REQUIRED when previously provided by Non-Billing Party N9~11~333444555666

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N901**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	**M ID 2/3**
Used	**N902**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.5 Payment Notification

Segment:	**N9** **Old Customer ID (N9~45)**
Position:	020
Loop:	CS Mandatory
Level:	Detail
Usage:	Conditional
Max Use:	3
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:	**1** At least one of N902 or N903 is required. **2** If N906 is present, then N905 is required. **3** If either C04003 or C04004 is present, then the other is required. **4** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** N906 reflects the time zone which the time reflects. **2** N907 contains data relating to the value cited in N902.
Comments:	
Notes:	Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days REQUIRED if Customer ID has changed in last 45 days N9~45~212345438756

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N901**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed		
Used	**N902**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.5 Payment Notification

Segment:	**REF** **Commodity Service Type (REF~QY)**
Position:	060
Loop:	REF Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Code that defines the commodity REQUIRED REF~QY~ELECTRIC

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification QY — Service Performed Code Number indicating the type of service performed to repair a product Commodity Service Type	
Used	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier ELECTRIC — Electric Service GAS — Natural Gas Service	

RXQ.3.6.5 Payment Notification

Segment:	**LX** **Assigned Number**
Position:	080
Loop:	LX Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To reference a line number in a transaction set
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Use multiple CS loops for multiple payments/adjustments on a Customer ID. The AMT02 element in this loop for the Customer ID should match the CS11 value. REQUIRED LX~1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**LX01**	**554**	**Assigned Number** Number assigned for differentiation within a transaction set	**M N0 1/6**

RXQ.3.6.5 Payment Notification

Segment: **N9** **Transaction Tracking ID (N9~TN)**
Position: 090
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: ID used to uniquely identify this collection/adjustment
REQUIRED

N9~TN~123223327~~19990225
N9~TN~123223532~CS~19990225 (Adjustment)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N901**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification TN Transaction Reference Number		
Used	**N902**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Transaction Tracking Number		
Used	**N903**	**369**	**Free-form Description**	**X**	**AN 1/45**
			Free-form descriptive text Adjustment Reason Code. Only used if AMT01 (within the LX) is equal to "BM" 72 Returned Items CS Adjustment IF Insufficient Funds		
Used	**N904**	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD Date the payment or adjustment was posted by the Billing Party		

RXQ.3.6.5 Payment Notification

Segment: **AMT** **Monetary Amount**
Position: 100
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:
Notes: Collected or adjustment amount allocated to the Non-Billing Party for this Customer.
REQUIRED

AMT~KL~25.00
AMT~BM~-130.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**AMT01**	**522**	**Amount Qualifier Code** Code to qualify amount BM Adjustments KL Collected Amount	**M ID 1/3**
Must Use	**AMT02**	**782**	**Monetary Amount** Monetary amount Leading negative sign must be sent if this is a negative number, e.g. in the case of a bounced check to indicate the original check amount is being reversed. If the amount is positive, no sign is sent. The sum of all AMT02 elements under this Customer ID is provided in the CS11	**M R 1/18**

RXQ.3.6.5 Payment Notification

Segment:	**N1** **Name: Customer (N1~8R)**
Position:	140
Loop:	N1 Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	**1** At least one of N102 or N103 is required. **2** If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	**1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. **2** N105 and N106 further define the type of entity in N101.
Notes:	Name of Customer REQUIRED N1~8R~JOHN ENERGY USER

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual 8R Consumer Service Provider (CSP) Customer	
Must Use	**N102**	**93**	**Name**	**M AN 1/60**
			Free-form name	

RXQ.3.6.5 Payment Notification

Segment: **SE** **Transaction Set Trailer**
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED

SE~28~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
Must Use	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

[END X12 MAPPING GUIDELINES FOR PAYMENT NOTIFICATION]

RXQ.3.6.6: APPLICATION ADVICE

Technical Implementation Of Business Process

The Application Advice transaction is the communication between companies that advises trading partners of success or failure in certain business processes. The use of the Application Advice UET enables trading partners to automate processes for common exceptions, and for common notifications. The following retail energy business processes use the Application Advice:

Application Advice Use
Invalid Usage – This negative acknowledgement, sent by the party receiving usage, notifies the sender that usage was bad.
Invalid Invoice – This negative acknowledgement, sent by the party receiving an invoice, notifies the party that generated the invoice that it was bad.
Invoice Missed Bill Window – This negative acknowledgement, sent by the Billing Party, notifies the Non-Billing Party that the invoice was received after the bill window had expired.

Proactive (non-error) application advice transactions are not supported at this time.

The UET consists of the following logical groups of data:

- Envelope
- Billing Party
- Non-Billing Party
- Customer
- Advice Details, including rejection information where applicable.

Envelope information contains the **App Advice Action, the App Advice Date, and the App Advice ID.**

Billing Party group contains **Billing Party ID, Billing Party Name, Billing Party Technical Contact.**

Customer group contains **Customer ID, Billing Party Old Account ID, Customer Name, Non-Billing Party Account ID.**

Non-Billing Party group contains **Non-Billing Party Account ID, Non-Billing Party Name, Non-Billing Party Technical Contact.**

Application Advice Detail group contains **Bill Due Date, Cross Reference ID, Date Bill Rendered, Outstanding Balance, Rejection Level, Rejection Reason, Rejection Text.**

RXQ.3.6.6 Application Advice

Sample Paper Transaction

Application Advice Header	
Transaction Date:	20040413
App Advice ID:	04132004TR4877
Action Required:	Do Not Resend
Trans Purpose:	
Billing Party (BP) Name:	Distribute-It Inc.
BP Entity ID:	123456789
BP Technical Contact:	John Distribute
BP Technical Contact Phone:	713.111.1111
Non-Billing Party (NBP) Name:	Sell-It Inc.
NBP Entity ID:	546897321
Customer Name:	Use-It Inc.
Customer Acct ID:	12345767890
NBP Customer Acct ID:	12345656788
Service Type:	Electric
Rejection Level:	Entire Transaction Rejected
Transaction Set Rejected:	810
Rejection Code:	MBW
Rejection Description:	Missed Bill Window

RXQ.3.6.6 Application Advice

Data Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]
App Advice ID	A unique transaction ID assigned by the originator of this transaction. This number must be unique over time.	M		
App Advice Date	Date that the data was processed by the sender's application system.	M		
App Advice Action	Indicates whether the receiver of the AA is expected to resend the transaction or not.	M		[Resend, Do Not Resend, Accept]
Receiver Entity ID	Receiver's Entity Common Code ID (e.g. DUNS Number)	M		
Receiver Entity Name	Receiver's Name	M		
Sender Entity ID	Sender Entity Common Code ID (e.g. DUNS Number)	M		
Sender Name	Sender Name	M		
Receiver Technical Contact	Receiver Contact information (Telephone, Email, Fax) to resolve this particular issue.	RBC	[M] if BP sends transaction	
Sender Technical Contact	Sender Contact information (Telephone, Email, Fax) to resolve this particular issue	RBC	[M] if NBP sends transaction	
Sender Technical Contact Email	Sender Contact E-mail	RBC		
Sender Technical Contact Fax	Sender Contact Fax	RBC		
Sender Technical Contact Phone	Sender Contact Telephone	RBC		
Customer Name	Customer Name	M		
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M		
Old Customer ID	Previous Customer Account ID	RBC	Send if Customer ID changed in last 45 days	
Outstanding Balance	Total outstanding balance printed on bill for Non-Billing Party (for Acceptance of a BR Invoice)	RBC		
Date Bill Rendered	Date bill was rendered to the Customer (for Acceptance of a Bill Ready Invoice)	RBC		
Date Bill Due	Date Customer payment is due (for Acceptance of a BR Invoice)	RBC		
Rejection Reason	Code indicating rejection reason	C	[M] if RejLev indicates reject	
Rejection Level	Code indicating rejection level (e.g. entire, partial, accepted).	M		[Entire Transaction Rejected, Part of Transaction Rejected, Entire Transaction Accepted, Item is Rejected]
Transaction Set	Transaction Set that is being responded to	M		[Usage, Invoice, Payment]
Cross Reference ID	Cross reference ID that links transaction to original Invoice or Payment transaction	M		
Rejection Text	Text explaining rejection reason	C	[M] if RejLev indicates reject	

RXQ.3.6.6 Application Advice

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
App Advice Action	Accept	Accept	CF
App Advice Action	Do Not Resend	Do Not Resend	EV
App Advice Action	Resend	Resend	82
Rejection Level	Entire Transaction Accepted	Entire Transaction Accepted	TA
Rejection Level	Entire Transaction Rejected	Entire Transaction Rejected	TR
Rejection Level	Item is Rejected	Item is Rejected	IR
Rejection Level	Part of Transaction Rejected	Part of Transaction Rejected	TP
Transaction Set	Invoice	Invoice	810
Transaction Set	Payment	Payment	820
Transaction Set	Usage	Usage	867

RXQ.3.6.6 Billing Services Termination

X12 EDI Subtab

ASC X12 Mapping Guidelines
[??placeholder; delete after inserting from RTF]

RXQ.3.6.6 Billing Services Termination

824 NAESB RXQ.3.6.6 Application Advice

Functional Group ID=AG

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Application Advice Transaction Set (824) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgment sent in response to a purchase order).

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BGN	Beginning Segment	M	1		
			LOOP ID - N1			>1	
M	030	N1	Name: Distribution Company (N1~8S)	M	1		
	080	PER	Administrative Communications Contact	C	3		
			LOOP ID - N1			>1	
	030	N1	Name: Registration Agent (N1~AY)	C	1		
	080	PER	Administrative Communications Contact	C	3		
			LOOP ID - N1			>1	
M	030	N1	Name: Supplier (N1~SJ)	M	1		
	080	PER	Administrative Communications Contact	C	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - OTI			>1	
M	010	OTI	Original Transaction Identification	M	1		n1
M	020	REF	Customer ID (REF~12/Q5)	M	12		n2
	020	REF	Old Customer ID (REF~45)	C	12		
	020	REF	Non-Billing Party Account ID (REF~11)	C	12		
			LOOP ID - TED			>1	
M	070	TED	Technical Error Description	M	1		
	080	NTE	Note/Special Instruction	C	100		
M	090	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The OTI loop is intended to provide a unique identification of the transaction set that is the subject of this application acknowledgment.
2. The REF segment allows for the provision of secondary reference identification or numbers required to uniquely identify the original transaction set. The primary reference identification or number should be provided in elements OTI02-03.

RXQ.3.6.6 Billing Services Termination

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~824~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set 824 Application Advice	
Must Use	**ST02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.6 Billing Services Termination

Segment: **BGN** **Beginning Segment**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set
Syntax Notes:
1 If BGN05 is present, then BGN04 is required.
Semantic Notes:
1 BGN02 is the transaction set reference number.
2 BGN03 is the transaction set date.
3 BGN04 is the transaction set time.
4 BGN05 is the transaction set time qualifier.
5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.
Comments:
Notes: REQUIRED

BGN~11~200107111230001~20010711~~~~~82

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	BGN01	353	**Transaction Set Purpose Code** Code identifying purpose of transaction set 11 Response	M	ID 2/2
Must Use	BGN02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. Transaction Reference numbers will only contain uppercase letters (A to Z) and digits (0 to 9), dashes ('-'), or periods ('.'). All other punctuation (spaces, commas, etc.) must be excluded.	M	AN 1/30
Must Use	BGN03	373	**Date** Date expressed as CCYYMMDD The transaction creation date - the date that the data was processed by the sender's application system.	M	DT 8/8
Must Use	BGN08	306	**Action Code** Code indicating type of action 82 Follow Up Indicates that the receiver of the transaction must correct and resend the transaction. EV Evaluate Indicates that the receiver of the transaction must evaluate the error, but the transaction should NOT be resent.	M	ID 1/2

RXQ.3.6.6 Billing Services Termination

Segment: **N1** **Name: Distribution Company (N1~8S)**
Position: 030
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: Distribution Company Name and Entity ID
REQUIRED

N1~8S~DISTRIBUTE-IT INC.~1~007909999~~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			8S — Consumer Service Provider (CSP)		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			Distribution Company Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			Distribution Company Entity ID		
Dep	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			40 — Receiver		
			41 — Submitter		

RXQ.3.6.6 Billing Services Termination

Segment: **PER** **Administrative Communications Contact**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Conditional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: OPTIONAL

PER~IC~CONTACT~TE~8005551212~EM~CONTACT@COMPANY.COM

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PER01**	**366**	**Contact Function Code**	**M ID 2/2**
			Code identifying the major duty or responsibility of the person or group named IC — Information Contact Distribution Company contact to resolve this particular issue	
Must Use	**PER02**	**93**	**Name**	**O AN 1/60**
			Free-form name	
Must Use	**PER03**	**365**	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number EM — Electronic Mail TE — Telephone	
Must Use	**PER04**	**364**	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable	
Dep	**PER05**	**365**	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number Condition: Required if providing a second contact number EM — Electronic Mail TE — Telephone	
Dep	**PER06**	**364**	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable Condition: Required if providing a second contact number	

RXQ.3.6.6 Billing Services Termination

Segment: **N1** **Name: Registration Agent (N1~AY)**
Position: 030
Loop: N1 Conditional
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: Registration Agent Name and Entity ID
REQUIRED when Registration Agent submits or receives transaction.

N1~AY~REGISTER-IT INC.~1~183529049~~40
N1~AY~REGISTER-IT INC.~1~183529049~~OA

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual AY Clearinghouse		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name Registration Agent Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code Registration Agent Entity ID		
Must Use	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual 40 Receiver 41 Submitter OA Electronic Return Originator Required when the original 824 is being forwarded by the Registration Agent. The N106 code will be changed by Registration Agent only.		

RXQ.3.6.6 Billing Services Termination

Segment: **PER** **Administrative Communications Contact**
Position: 080
Loop: N1 Conditional
Level: Heading
Usage: Conditional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: REQUIRED when Registration Agent initiates the 824
PER~IC~CONTACT~TE~8005551212~EM~contact@register-it.com

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**PER01**	**366**	**Contact Function Code**	**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			IC — Information Contact Registration Agent contact to resolve this particular issue		
Must Use	**PER02**	**93**	**Name**	**O**	**AN 1/60**
			Free-form name		
Must Use	**PER03**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number		
			EM — Electronic Mail TE — Telephone		
Must Use	**PER04**	**364**	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable		
Dep	**PER05**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number Condition: Required if providing a second contact number		
			EM — Electronic Mail FX — Facsimile TE — Telephone		
Dep	**PER06**	**364**	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable Condition: Required if providing a second contact number		
Dep	**PER07**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Code identifying the type of communication number Condition: Required if providing a third contact numbers		
			EM — Electronic Mail FX — Facsimile TE — Telephone		

RXQ.3.6.6 Billing Services Termination

Dep	**PER08**	**364**	**Communication Number** Complete communications number including country or area code when applicable Condition: Required if providing a third contact numbers	**X**	**AN 1/80**

RXQ.3.6.6 Billing Services Termination

Segment: **N1** **Name: Supplier (N1~SJ)**
Position: 030
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes:
Supplier Name and Entity ID
REQUIRED

N1~SJ~SUPPLY-IT INC.~1~183529049~~41

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Must Use	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			SJ — Service Provider		
Must Use	**N102**	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
			Supplier Name		
Must Use	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			1 — D-U-N-S Number, Dun & Bradstreet		
			9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
Must Use	**N104**	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			Supplier Entity ID		
Dep	**N106**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			40 — Receiver		
			41 — Submitter		

RXQ.3.6.6 Billing Services Termination

Segment: **PER** **Administrative Communications Contact**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Conditional
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: PER~IC~CONTACT~TE~8005551212~EM~CONTACT@COMPANY.COM

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**PER01**	**366**	**Contact Function Code**	**M ID 2/2**
			Code identifying the major duty or responsibility of the person or group named	
			IC — Information Contact	
			Registration Agent Contact to resolve this particular issue	
Must Use	**PER02**	**93**	**Name**	**O AN 1/60**
			Free-form name	
Must Use	**PER03**	**365**	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
			EM — Electronic Mail	
			TE — Telephone	
Must Use	**PER04**	**364**	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable	
Dep	**PER05**	**365**	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
			Condition: Required if providing a second contact number	
			EM — Electronic Mail	
			FX — Facsimile	
			TE — Telephone	
Dep	**PER06**	**364**	**Communication Number**	**X AN 1/80**
			Complete communications number including country or area code when applicable	
			Condition: Required if providing a second contact number	
Dep	**PER07**	**365**	**Communication Number Qualifier**	**X ID 2/2**
			Code identifying the type of communication number	
			Condition: Required if providing a third contact numbers	
			EM — Electronic Mail	
			FX — Facsimile	
			TE — Telephone	
Dep	**PER08**	**364**	**Communication Number**	**X AN 1/80**

RXQ.3.6.6 Billing Services Termination

Complete communications number including country or area code when applicable

Condition: Required if providing a third contact numbers

RXQ.3.6.6 Billing Services Termination

Segment: **OTI** **Original Transaction Identification**
Position: 010
Loop: OTI Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the edited transaction set and the level at which the results of the edit are reported, and to indicate the accepted, rejected, or accepted-with-change edit result

Syntax Notes:
1 If OTI09 is present, then OTI08 is required.

Semantic Notes:
1 OTI03 is the primary reference identification or number used to uniquely identify the original transaction set.
2 OTI06 is the group date.
3 OTI07 is the group time.
4 If OTI11 is present, it will contain the version/release under which the original electronic transaction was translated by the receiver.
5 OTI12 is the purpose of the original transaction set, and is used to assist in its unique identification.
6 OTI13 is the type of the original transaction set, and is used to assist in its unique identification.
7 OTI14 is the application type of the original transaction set, and is used to assist in its unique identification.
8 OTI15 is the type of action indicated or requested by the original transaction set, and is used to assist in its unique identification.
9 OTI16 is the action requested by the original transaction set, and is used to assist in its unique identification.
10 OTI17 is the status reason of the original transaction set, and is used to assist in its unique identification.

Comments:
1 OTI02 contains the qualifier identifying the business transaction from the original business application, and OTI03 will contain the original business application identification.
2 If used, OTI04 through OTI08 will contain values from the original electronic functional group generated by the sender.
3 If used, OTI09 through OTI10 will contain values from the original electronic transaction set generated by the sender.

Notes: OTI03 serves as a cross-reference to the transaction being responded to. This data element is populated from:
-248=BHT03
-568=BGN02
-810=BIG02
-867=BPT02
-820=TRN02
REQUIRED

OTI~TR~TN~2001010100001~~~~~~~810
OTI~TR~TN~2001010100001~~~~~~~867

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**OTI01**	**110**	**Application Acknowledgment Code**	**M ID 1/2**
			Code indicating the application system edit results of the business data	
			TE Transaction Set Accept with Error	
			Used when BGN08 = EV	
			TR Transaction Set Reject	
			Used when BGN08 = 82	

RXQ.3.6.6 Billing Services Termination

Must Use	**OTI02**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification TN — Transaction Reference Number		
Must Use	**OTI03**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
Must Use	**OTI10**	**143**	**Transaction Set Identifier Code**	**O**	**ID 3/3**
			Code uniquely identifying a Transaction Set EDI Transaction Set number transaction is in response to 248 — Account Assignment/Inquiry and Service/Status 568 — Contract Payment Management Report 810 — Invoice 820 — Payment Order/Remittance Advice 867 — Product Transfer and Resale Report		

RXQ.3.6.6 Billing Services Termination

Segment:	**REF** **Customer ID (REF~12/Q5)**
Position:	020
Loop:	OTI Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	12
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required. **2** If either C04003 or C04004 is present, then the other is required. **3** If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	ID that uniquely defines the Customer in marketplace. Governing documents define whether REF~12 or REF~Q5 is required. - REF~12 uses REF02 for ID; usually LDC Account Number - REF~Q5 uses REF03 for ID; usually the ESI ID (ERCOT) REQUIRED REF~12~1011111123456780 REF~Q5~~10111111234567890ABCDEFGHIJKL

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			12 Billing Account Account number under which billing is rendered Account number that identifies the unique Customer in the marketplace; sent in REF02	
			Q5 Property Control Number SD ID (e.g. ESI ID) that identifies the unique Customer in the marketplace; sent in REF03	
Must Use	**REF02**	**127**	**Account ID**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Invoice Number	
Used	**REF03**	**352**	**SD ID**	**X AN 1/80**
			A free-form description to clarify the related data elements and their content	

RXQ.3.6.6 Billing Services Termination

Segment: **REF** **Old Customer ID (REF~45)**
Position: 020
Loop: OTI Mandatory
Level: Detail
Usage: Conditional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days
REQUIRED when Customer ID has changed within last 45 days

REF~45~10111111234

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed	**M ID 2/3**
Used	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.6 Billing Services Termination

Segment: **REF** **Non-Billing Party Account ID (REF~11)**
Position: 020
Loop: OTI Mandatory
Level: Detail
Usage: Conditional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:
ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED if provided by the Non-Billing Party

REF~11~~1011111123

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	
Used	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Non-Billing Party Account ID	

RXQ.3.6.6 Billing Services Termination

Segment:	**TED Technical Error Description**
Position:	070
Loop:	TED Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify the error and, if feasible, the erroneous segment, or data element, or both
Syntax Notes:	
Semantic Notes:	
Comments:	**1** If used, TED02 will contain a generic description of the data in error (e.g., part number, date, reference number, etc.).
Notes:	More than one rejection reason code may be sent by repeating the TED Loop. REQUIRED TED~848~A76

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**TED01**	**647**	**Application Error Condition Code**	**M ID 1/3**
			Code indicating application error condition 848 Incorrect Data	
Must Use	**TED02**	**3**	**Free Form Message**	**M AN 1/60**
			Free-form text	

Code	Description
008	Customer ID Exists But Not Active
A13	Other Explanation required in NTE~ADD.
A76	Customer ID Invalid or Not Found
A83	Invalid or Unauthorized Action Information provided is not supported
A84	Invalid Relationship No established trading partner relationship with the sender.
ABN	Duplicate Request Received
ADM	Amount Does Not Match The amount within the 810 Cancellation/Reversal does not match the original 810
API	Required Information Missing Explanation required in NTE~ADD. May not be used in place of other, more specific error codes.
CRI	Cross Reference Number Invalid Cross reference number provided on the 810 or 867 Cancel does not match the cross reference number on an open 867.
D76	Entity ID Invalid or Not Found
DDM	Dates Do Not Match Valid for 810, 867 -810: The Service Period Begin and End Dates do not match the same dates on an open 867. -867: The Service Period Dates do not match. The

RXQ.3.6.6 Billing Services Termination

	Service Period End Date from the previous period does not match with the beginning date of current service period. There is a gap in service periods. For example, last read was August 27, and the first read was August 30.
DIV	Date Invalid
	Use NTE~ADD to further describe the invalid date
EXP	Billing Period Mismatch
	810 Received for billing period older than that supported by the Billing Party's system
FRF	Bill Type Mismatch
	Billing Party and Non-Billing Party do not have same bill type (e.g. an 810 was received by the Billing Party for a Customer that is listed as a DUAL bill option in the Billing Party's system. BGN08 must be EV for this rejection reason.
FRG	Bill Calculator Mismatch
	An invoice was received for a Customer with the Bill Calculator (REF*PC) data element different than what is listed in the receiver's system. BGN08 must be EV for this rejection reason
I76	Invoice Number Invalid or Missing
IIS	Invalid Interval Status
	Interval Detail usage data is sent when Interval Summary Usage Data was requested or vice versa.
INT	Interval Data Invalid or Not Found
	Valid for 867
MRI	Incorrect Meter Role for ID Type
NCP	No Cancellation Processed
	A second transaction is received for a given scenario (e.g. 810, 867) before or not with the cancellation of the first transaction. Replaces 'ABO' error.
OBW	Outside Bill Window
	Invoice received outside bill window
SUM	Sum of Details Does Not Equal Total
TCN	Total Charges Negative
	Total Charges Negative (for Billing Parties that do not allow negative charges)
TOU	Incorrect TOU Period
TXI	Invalid Tax Information

RXQ.3.6.6 Billing Services Termination

Segment: **NTE** **Note/Special Instruction**
Position: 080
Loop: TED Mandatory
Level: Detail
Usage: Conditional
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes: Used to further describe the rejection reason code sent in TED02.

REQUIRED when TED02 = A13, API, or DIV

NTE~ADD~ACCOUNT NOT FOUND

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies ADD Additional Information	**O ID 3/3**
Must Use	**NTE02**	**352**	**Rejection Reason Text** A free-form description to clarify the related data elements and their content	**M AN 1/80**

RXQ.3.6.6 Billing Services Termination

Segment: **SE** **Transaction Set Trailer**
Position: 090
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED

SE~9~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
Must Use	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

[END X12 MAPPING GUIDELINES FOR APPLICATION ADVICE]

RXQ.3.6.7: TERMINATION OF BILLING SERVICES

Technical Implementation Of Business Process

Related MBP's: RXQ.3.3.9.7

The Termination of Billing Services (TBS) transaction is used when the party providing billing services terminates those billing services for an account. The TBS transmits outstanding Non-Billing Party charges from the Billing Party to the Non-Billing Party.

The **Sender** is the Billing Party; the **Receiver** is the Non-Billing Party.

Each TBS transaction header contains

- **Billing Party ID**
- **Billing Party Name**
- **Customer ID**
- **Non-Billing Party ID**
- **Non-Billing Party Name**
- **Non-Billing Party Account ID**
- **Purpose**
- **Termination of Bill Services Unique ID**
- **Service Type**
- **Transaction Date**

Each TBS transaction detail contains

- **Write-off Amount**
- **Write-off Date.**

RXQ.3.6.6 Billing Services Termination

Sample Paper Transaction

Termination of Billing Services Header	
Transaction Date:	20040413
TOBS ID:	04132004TR4877
Trans Purpose:	TOBS
Billing Party (BP) Name:	Distribute-It Inc.
BP Entity ID:	123456789
Non-Billing Party (NBP) Name:	Sell-It Inc.
NBP Entity ID:	546897321
Customer ID:	12345767890
NBP Customer Acct ID:	12345656788
Service Type:	Electric
Balance Returned:	$100.00

RXQ.3.6.6 Billing Services Termination

Data Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Elem. Name	Description	Use	Condition	Comments [Options]	Group
Transaction Purpose	Identifies the reason for sending this information	M		[Write-off]	0:Header
Termination of Bill Services Unique ID	Unique number identifying this transaction and created by the originator of this transaction	M			0:Header
Termination of Billing Services Date	Date this transaction was created by the sender's application system.	M			0:Header
Billing Party Entity ID	Billing Party Entity Common Code ID (e.g. DUNS Number)	M			1:Parties
Billing Party Entity Name	Billing Party's Name	M			1:Parties
Non-Billing Party Entity ID	Non-Billing Party Entity Common Code ID (e.g. DUNS Number)	M			1:Parties
Non-Billing Party Entity Name	Non-Billing Party's Name	M			1:Parties
Billing Party Contact	Billing Party Contact Name	O			1:Parties
Billing Party E-mail	Billing Party Contact email	O			1:Parties
Billing Party Fax	Billing Party Contact Fax	O			1:Parties
Billing Party Phone	Billing Party Contact Phone	O			1:Parties
Balance Returned	Balance amount returned	M			2:Detail
Write-off Date	Date charges are written off Billing Party books	M			2:Detail
Customer Phone 1	Customer First Phone Number	BC	[M] if the Billing Party has a phone number		2:Detail
Customer Phone 2	Customer Second Phone Number	BC	[M] if the Billing Party has a second phone number		2:Detail
Customer Info	Customer Additional Information	O			2:Detail
Customer Name	Customer Name	M			2:Detail
Non-Billing Party Account ID	Customer Account ID assigned by the Non-Billing Party	RBC		BR: sent if previously received by Non-Billing Party	2:Detail
Customer ID	Customer Account ID or SDID; ID that uniquely defines the Customer in the marketplace.	M			2:Detail
Commodity Service Type	Identifies type of energy commodity service	M		[Electric, Gas]	2:Detail

RXQ.3.6.6 Billing Services Termination

Code Values Dictionary

[??placeholder; delete after inserting from spreadsheet]

Data Element	Code Description	Code Definition	Code Value
Commodity Service Type	Electric	Electric	ELECTRIC
Commodity Service Type	Gas	Natural Gas	GAS
Purpose	Write-off	Used to notify the non-billing party that the billing party will no longer pursue collections for this customer	22

RXQ.3.6.6 Billing Services Termination

X12 EDI Subtab

ASC X12 Mapping Guidelines
[??placeholder; delete after inserting from RTF]

RXQ.3.6.6 Billing Services Termination

248 NAESB RXQ.3 Termination of Billing Services

Functional Group ID=SU

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Account Assignment/Inquiry and Service/Status Transaction Set (248) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used for two-way, multi-transactional purposes of assigning accounts for collection, reporting status inquiries and inquiry responses and to update accounts between entities.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BHT	Beginning of Hierarchical Transaction	M	1		
			LOOP ID - NM1			1	
M	030	NM1	Distribution Company Name and Entity ID	M	1		n1
			LOOP ID - NM1			1	
M	030	NM1	Name: Supplier (N1~SJ)	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			>1	
M	010	HL	Hierarchical Level	M	1		n2
M	020	NM1	Customer Name (NM1~D4)	M	1		n3
M	060	REF	Customer ID (REF~12)	M	1		
	060	REF	Non-Billing Party Account ID (REF~11)	C	1		
	060	REF	Write-off Account ID (REF~X0)	C	1		
	060	REF	Old Customer ID (REF~45)	C	1		
	070	PER	Administrative Communications Contact	C	1		
M	110	BAL	Balance Returned (BAL~CD)	M	1		
			LOOP ID - DTP			1	
M	120	DTP	Date of Termination of Billing Services (DTM~630)	M	1		
M	180	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The NM1 loop will contain only information pertaining to the Credit Grantor and the Agency.
2. The HL loop will contain parent-child (subordinate) data relationships pertaining to the debtor and/or any association to the debtor.
3. The NM1 segment will contain only information pertaining to the debtor and/or any subordinate association to the debtor.

RXQ.3.6.6 Billing Services Termination

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: REQUIRED

ST~248~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**ST01**	**143**	**Transaction Set Identifier Code**	**M ID 3/3**
			Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	**ST02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

RXQ.3.6.6 Billing Services Termination

Segment: **BHT** **Beginning of Hierarchical Transaction**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time
Syntax Notes:
Semantic Notes:
1 BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
2 BHT04 is the date the transaction was created within the business application system.
3 BHT05 is the time the transaction was created within the business application system.
Comments:
Notes: REQUIRED

BHT~0057~22~1234567890~20051127

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BHT01**	**1005**	**Hierarchical Structure Code**	**M ID 4/4**
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	
			0057 Supergroup, subgroup, member Customer	
Must Use	**BHT02**	**353**	**Transaction Set Purpose Code**	**M ID 2/2**
			Code identifying purpose of transaction set	
			01 Cancellation Reinstate; used to reinstate a balance when Billing Party resumes collection activities for the Customer.	
			22 Information Copy Write Off; used when the Billing Party stops pursuing collections for this Customer	
Used	**BHT03**	**127**	**Reference Identification**	**O AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Unique Number identifying this transaction assigned by the sender of the transaction. This number should be unique over all time.	
Used	**BHT04**	**373**	**Date**	**O DT 8/8**
			Date expressed as CCYYMMDD	
			Date that the data was processed by the originator's application system	

RXQ.3.6.6 Billing Services Termination

Segment: **NM1** **Distribution Company Name and Entity ID**
Position: 030
Loop: NM1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: **1** If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: **1** NM102 qualifies NM103.
Comments: **1** NM110 and NM111 further define the type of entity in NM101.
Notes: REQUIRED

NM1~8S~3~DISTRIBUTE-IT INC.~~~~~1~999999999~40

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**NM101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider (CSP)	**M ID 2/3**
Must Use	**NM102**	**1065**	**Entity Type Qualifier** Code qualifying the type of entity 3 Unknown	**M ID 1/1**
Must Use	**NM103**	**1035**	**Name Last or Organization Name** Individual last name or organizational name Distribution Company Name	**M AN 1/35**
Must Use	**NM108**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	**M ID 1/2**
Must Use	**NM109**	**67**	**Identification Code** Code identifying a party or other code Distribution Company Entity ID	**M AN 2/80**
Must Use	**NM111**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual 40 Receiver Entity to accept transmission The receiver is the Non-Billing Party 41 Submitter Entity transmitting transaction set The sender is the Billing Party	**M ID 2/3**

RXQ.3.6.6 Billing Services Termination

Segment: **NM1** **Name: Supplier (N1~SJ)**
Position: 030
Loop: NM1 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes:
1 If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: **1** NM102 qualifies NM103.
Comments: **1** NM110 and NM111 further define the type of entity in NM101.
Notes: Supplier Name and Entity ID
REQUIRED

NM1~SJ~3~SUPPLY-IT INC.~~~~~1~111222333~41

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**NM101**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual SJ — Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered	
Must Use	**NM102**	**1065**	**Entity Type Qualifier**	**M ID 1/1**
			Code qualifying the type of entity 3 — Unknown	
Must Use	**NM103**	**1035**	**Name Last or Organization Name**	**M AN 1/35**
			Individual last name or organizational name Supplier Name	
Must Use	**NM108**	**66**	**Identification Code Qualifier**	**M ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67) 1 — D-U-N-S Number, Dun & Bradstreet 9 — D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
Must Use	**NM109**	**67**	**Identification Code**	**M AN 2/80**
			Code identifying a party or other code Supplier Entity ID	
Must Use	**NM111**	**98**	**Entity Identifier Code**	**M ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual 40 — Receiver Entity to accept transmission The receiver is the 'Non-Billing Party' 41 — Submitter Entity transmitting transaction set	

RXQ.3.6.6 Billing Services Termination

The sender is the 'Billing Party'

RXQ.3.6.6 Billing Services Termination

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.
2. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: REQUIRED

HL~1~~24

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**HL01**	**628**	**Hierarchical ID Number**	**M AN 1/12**
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure Always '1' since there is only one account per 248 transaction	
Must Use	**HL03**	**735**	**Hierarchical Level Code**	**M ID 1/2**
			Code defining the characteristic of a level in a hierarchical structure 24 Supergroup Customer	

RXQ.3.6.6 Billing Services Termination

Segment: **NM1** **Customer Name (NM1~D4)**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: **1** If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: **1** NM102 qualifies NM103.
Comments: **1** NM110 and NM111 further define the type of entity in NM101.
Notes: REQUIRED

NM1~D4~3~JOHN ENERGY USER

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**NM101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual D4 Debtor		
Must Use	**NM102**	**1065**	**Entity Type Qualifier**	**M**	**ID 1/1**
			Code qualifying the type of entity 3 Unknown		
Used	**NM103**	**1035**	**Name Last or Organization Name**	**O**	**AN 1/35**
			Individual last name or organizational name Customer Name as it appears on the Customer's bill		

RXQ.3.6.6 Billing Services Termination

Segment:	**REF** **Customer ID (REF~12)**
Position:	060
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	ID that uniquely defines the Customer in marketplace. REQUIRED REF~12~123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered	
Used	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

RXQ.3.6.6 Billing Services Termination

Segment: **REF** **Non-Billing Party Account ID (REF~11)**
Position: 060
Loop: HL Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in Non-Billing Party systems. The Billing Party is required to store this ID and echo on transactions to the Non-Billing Party if this ID was previously provided to the Billing Party
REQUIRED if provided previously by the Non-Billing Party

REF~11~123456789019990102

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account	
Used	**REF02**	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Non-Billing Party Account ID	

RXQ.3.6.6 Billing Services Termination

Segment: **REF** **Write-off Account ID (REF~X0)**
Position: 060
Loop: HL Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** REF04 contains data relating to the value cited in REF02.
Comments:
Notes: ID that uniquely defines the Customer in marketplace after the Customer has been written-off by the Billing Party. Used only when the Billing Party creates a new account for written-off customers.
REQUIRED when Billing Party creates a new account for a written-off Customer

REF~X0~10111111234567890

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification X0 Debtor's Account	**M ID 2/3**
Used	**REF02**	**127**	**Customer Account ID** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X AN 1/30**

RXQ.3.6.6 Billing Services Termination

Segment:	**REF** **Old Customer ID (REF~45)**
Position:	060
Loop:	HL Mandatory
Level:	Detail
Usage:	Conditional
Max Use:	1
Purpose:	To specify identifying information
Syntax Notes:	**1** At least one of REF02 or REF03 is required.
	2 If either C04003 or C04004 is present, then the other is required.
	3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	**1** REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	Cross-reference ID used to identify a Customer if the Customer has received a new Customer ID in last 45 days REQUIRED when the Customer ID has changed in the last 45 days REF~45~1235367812

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**REF01**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification 45 Old Account Number Identifies accounts being changed		
Used	**REF02**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

RXQ.3.6.6 Billing Services Termination

Segment: **PER** **Administrative Communications Contact**
Position: 070
Loop: HL Mandatory
Level: Detail
Usage: Conditional
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: REQUIRED if in Billing Party systems

PER~IC~~TE~7175551111~TE~7175551112

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**PER01**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named IC Information Contact	**M**	**ID 2/2**
Used	**PER03**	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X**	**ID 2/2**
Used	**PER04**	**364**	**Communication Number** Complete communications number including country or area code when applicable Last Known Customer Telephone Number #1	**X**	**AN 1/80**
Used	**PER05**	**365**	**Communication Number Qualifier** Code identifying the type of communication number TE Telephone	**X**	**ID 2/2**
Used	**PER06**	**364**	**Communication Number** Complete communications number including country or area code when applicable Last Known Customer Telephone Number #2	**X**	**AN 1/80**

RXQ.3.6.6 Billing Services Termination

Segment: **BAL** **Balance Returned (BAL~CD)**
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:
Notes: REQUIRED

BAL~CD~BD~325.67
BAL~CD~BD~-250.00

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**BAL01**	**951**	**Balance Type Code**	**M ID 1/2**
			Code indicating the type of balance	
			CD — Cycle to Date Denotes balance data associated with defined periods	
Must Use	**BAL02**	**522**	**Amount Qualifier Code**	**M ID 1/3**
			Code to qualify amount	
			BD — Balance Due	
Must Use	**BAL03**	**782**	**Monetary Amount**	**M R 1/18**
			Monetary amount	
			Amount for which the Billing Party will (a) no longer pursue (original) or (b) resume pursuing (cancel) collections. A negative amount indicates that the Non-Billing Party has been overpaid and is responsible for reimbursing the Customer	

RXQ.3.6.6 Billing Services Termination

Segment:	**DTP** **Date of Termination of Billing Services (DTM~630)**
Position:	120
Loop:	DTP Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify any or all of a date, a time, or a time period
Syntax Notes:	
Semantic Notes:	**1** DTP02 is the date or time or period format that will appear in DTP03.
Comments:	
Notes:	REQUIRED for an original 248 (BHT02 = 22) DTP~630~D8~19990226

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**DTP01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time 630 Account Closed		
Must Use	**DTP02**	**1250**	**Date Time Period Format Qualifier**	**M**	**ID 2/3**
			Code indicating the date format, time format, or date and time format D8 Date Expressed in Format CCYYMMDD		
Must Use	**DTP03**	**1251**	**Date Time Period**	**M**	**AN 1/35**
			Expression of a date, a time, or range of dates, times or dates and times		

RXQ.3.6.6 Billing Services Termination

Segment: **SE** **Transaction Set Trailer**
Position: 180
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: REQUIRED

SE~28~000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**SE01**	**96**	**Number of Included Segments**	**M N0 1/10**
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	**SE02**	**329**	**Transaction Set Control Number**	**M AN 4/9**
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

[END X12 MAPPING GUIDELINES FOR TERMINATION OF BILLING SERVICES]